AGRICULTURAL OUTILOOK

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United States Department of Agriculture

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U.S. AGRICULTURE
NEW
PRIORITIES

1994 OUTLOOK

AGRICULTURAL OUTLOOK







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Selections from Presentations at USDA's Agriculture Outlook '94 Conference

Commodity Overview

U.S. farm output to rebound: A return to normal weather in 1994 should set the stage for a more productive year for U.S. agriculture. With recovery from the flood and drought of 1993, crop production will likely increase 5 to 10 percent. Added to an expected record output of animal products, this would raise total farm production 5 percent from last year.

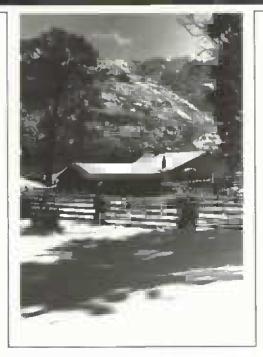
Higher prices for many commodities are expected, due to last year's smaller crop and reduced carryin. Larger output and higher crop prices will mean increased marketing revenue for farmers in 1994.

The strong growth in personal income combined with lower unemployment expected in the U.S. in 1994, will absorb much of the large meat supplies that are expected, supporting both grain and livestock prices. Stronger economic growth internationally will also support greater farm sales in 1994. The zero-to-negative real income growth achieved in 1993 by the developed countries is likely to be replaced by slow-to-moderate recoveries.

Agricultural Trade

U.S. ag exports steady: U.S. agricultural exports for fiscal 1994 are again pegged at about \$42.5 billion. With imports also forecast unchanged from last year, an agricultural trade surplus of \$18 billion is again expected. Export volume, however, is expected to drop about 10 percent, mostly due to lower shipments of corn, wheat, and soybeans. The U.S. trade forecast for fiscal 1994 reflects:

- prospects for relatively weak economic growth in Europe and Japan;
- smaller U.S. grain and oilseed supplies;
- increased grain production by some, competitors and importers; and
- uncertainties about exports to the former Soviet Union and China.



Rural Development

Outlook mixed for rural America: Rural America can be seen as a diverse realm with four kinds of areas. In 1994, natural resource-dependent areas will experience continuing pressure over environmental concerns. Scenic, recreational, and retirement areas are likely to experience substantial growth and conflict. Manufacturing-dependent areas, although they include highly competitive individual firms, also include some that are not likely to prosper. Persistent-poverty and low-density regions will need attention from the Federal government and USDA. Some portions of rural America will likely experience traumatic change in 1994. Possible candidates:

Articles are bosed on remarks by non-USDA as well as USDA authors. The contents present a diversity of viewpoints and do not necessarily reflect the views of the Department of Agriculture.

tourist areas dependent on uncertain energy prices, and the upper Midwest, if residual soil-moisture levels cause problems. In a political environment increasingly dominated by suburban voters and their representatives, USDA and rural leaders will need to create new alliances to address the needs of rural America.

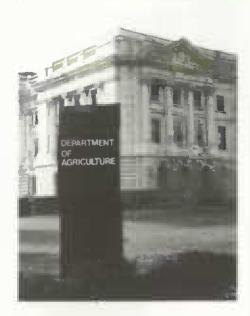
Environment & Resources

Shifting to ecosystem management: USDA's Forest Service and Soil Conservation Service are in transition to a new pattern of managing natural resources. The new approach, called ecosystem management, will involve a gradual shift in USDA management practices. Ecosystems—biological communities and their interactions with the environment-can be as large as the Mississippi River watershed or as small as an Iowa cornfield. Under ecosystem management, site-specific approaches to resource management and conservation are being expanded to include a systems approach focusing on the broader landscape over time. Ecosystem management calls for involvement of all concerned individuals and groups to address environmental problems shared in common. On private lands, ecosystem management activities will be consistent with landowners' objectives.

Rural Health Care

Health care reform and rural areas: The Administrations's proposal for health care reform—the Health Security Act-designed to secure and provide better health care for all Americans, will benefit farmers and rural communities particularly. The universal provisionsguaranteed coverage and access to services-are expected to greatly improve health care in rural communities, where more residents lack services and are uninsured and underinsured than in urban areas. The plan also includes a number of specific provisions designed to meet the needs of rural areas-including grants, tax credits, and other incentives for physicians to locate there.

Agricultural Economy



U.S. Agriculture: New Priorities

Mike Espy Secretary of Agriculture

he year that ended with Congressional approval of the North American Free Trade Agreement and multilateral acceptance of the historic GATT accord was a year of almost nonstop events and initiatives of major significance to U.S. agriculture. Trade initiatives—a key strategy in promoting growth in U.S. farm income—occupied the spotlight for much of 1993. But other activities—in the headlines or quietly behind the scenes—were helping to set agricultural priorities for the coming decade.

The Year Behind, The Plans Ahead

Early in 1993—and early in the new Administration—USDA was confronted with an outbreak of *E. coli* in fast-food restaurants causing illness and even

death among parrons who consumed hamburgers containing the bacteria. USDA moved to begin overhauling its entire food inspection system, shifting from reliance on sight, touch, and smell, to state-of-the-art tools of microbiology to detect pathogens. Under the new system, USDA inspectors will focus on conditions at each link in the meat production chain, and the efforts will include consumer education.

The education of consumers became a USDA priority in the area of nutrition as well. A highlight of this initiative is cooperating with local school officials to introduce more healthful foods into USDA's School Lunch Program, which feeds about 25 million schoolchildren each day. A more nutritious selection of foods will not only promote better health among the young participants today, but will also educate them on sound nutrition practices for a lifetime.

Still high on USDA's priority list are the efforts begun after the flood of 1993 that involve cleanup as well as attempts to prevent a replay of the devastating losses. USDA's Soil Conservation Service has been working with the Army Corps of Engineers, the Federal Emergency Management Agency, and others to actually move towns out of the flood plain if residents wish to move. The postflood tasks include repairing levees and cleaning up the mountains of silt and sand deposited by the Mississippi River.

USDA is intent on taking advantage of innovative programs within its current arsenal to arrive at long-term solutions, including the purchase of farmland along the flood plain—land that has flooded 16 times in the last 20 years—and placing it in permanent reserve. The Soil Conservation Service is prepared to work with conservation groups around the country to make this initiative a success.

The proposal would benefit everyone involved. The Federal government could avoid outlays for rebuilding levees in the future. Local levee districts would no longer have to assess their constituents for a share of the cost. And farmers would receive a fair market value for their prime cropland while freeing themselves from the anxiety of flood threats.

Crop insurance reform is also in the works. USDA's goal is a program that allows greater farmer participation; that is actuarially sound and also practical for the farmer; that involves preventive planning; and that includes affordable catastrophic provisions.

USDA has been making plans to improve the delivery of food stamps by moving into Electronic Benefits Transfer, or EBT, substituting a system based on ATM cards for one based on vouchers and coupons. With the EBT system, food stamp recipients can punch in their PIN numbers at the local grocery store and use the card to draw on individual accounts that have been created for them.

Farm Income & Export Growth

A central priority of USDA is to make the best use of its programs and activities to improve the income potential of U.S. farmers. But the reality is that Federal budget outlays for agriculture will continue to decline—a reality reflected in recent budget legislation and in the market orientation of the 1985 and 1990 Farm Acts. For this reason, U.S. farmers have a larger stake now in the outcome of the trade liberalization talks under GATT than in 1986 when the Uruguay Round of GATT talks began.

In 1986, farmers' net cash income was about \$48 billion, government outlays were a record \$26 billion, and farm exports stood at \$26 billion. Contrast this with the situation 6 years later, with net cash income at nearly \$57 billion, Federal outlays down to \$10 billion, and farm exports over \$42 billion. Moreover, the U.S. economy simply cannot grow rapidly enough to absorb the output from the steady rise in farm productivity. The expansion of export markets is critical to U.S. agriculture.

History also bears out the importance of export growth. During the 1950's, U.S. farm exports stagnated, crop surpluses mushroomed, and Congress implemented Public Law 480 and other mechanisms to boost U.S. exports. When agricultural

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exports soared during the 1970's—from \$7 billion in 1970 to about \$41 billion by 1980—farm income grew rapidly.

In the 1980's, the inability to sustain the export growth of the previous decade led to financial stress in the farm sector. If the 1980's had seen half the export growth of the 1970's, annual farm income would have been far higher.

Trade expansion will not solve every economic problem confronting U.S. agriculture, nor is it the only outlet that will accommodate increased farm productivity. The exploration of industrial uses of crops, and the production of new crops for new uses, are examples of other outlets. Nevertheless, exports currently account for about 20 percent of farm output, and one out of every three acres of cropland. A primary policy goal is to position U.S. agriculture to take advantage of the opportunities that are expanding in the global export market.

In China, Hong Kong, Japan, and other Pacific Rim countries, for example, millions of consumers are earning higher incomes and diversifying their diets, presenting an opportunity for the U.S. to expand exports of both bulk products and value-added items to the region. The U.S. message to all of these trading partners is the same: reduce tariffs, eliminate nontariff barriers, and eliminate regulations designed to keep out imports.

Center Stage: NAFTA & GATT

Passage of the North American Free Trade Agreement (NAFTA) by the U.S. Congress at the end of 1993 will expand U.S. agricultural exports to the growing Mexican market, boosting farm income. As trade barriers between the U.S. and Mexico are phased out, U.S. farm exports will continue to increase. After full implementation of NAFTA, annual U.S. agricultural exports are projected \$2.6 billion higher than without a NAFTA. An Administration goal is to extend free trade beyond Canada and Mexico to encompass the countries in the southern part of the Western Hemisphere.

With the GATT accord, which will reduce trade tariffs and eliminate numerous other trade barriers around the globe, the stakes are even higher for U.S. farmers,

for several reasons. One is the sheer size of the market spanned by the agreement, which covers 117 nations. The other is the significance and workability of a multilateral trade agreement that reduces trade barriers on a global basis.

Since it was chartered in 1948, the General Agreement on Tariffs and Trade has governed most international trade. When GATT negotiators met the December 15. 1993 deadline for arriving at an agreement, they capped 7 years of bargaining under the Uruguay Round, the eighth round of talks during GATT's history. In the Uruguay Round, agricultural trade was included for the first time since GATT was formed. And agriculture was among the most complex and, at times, contentious issues in the negotiations, necessitating a side agreement—the Blair House Agreement—between the U.S. and the European Community (EC) on farm export subsidies and internal supports, before a GATT accord could be concluded.

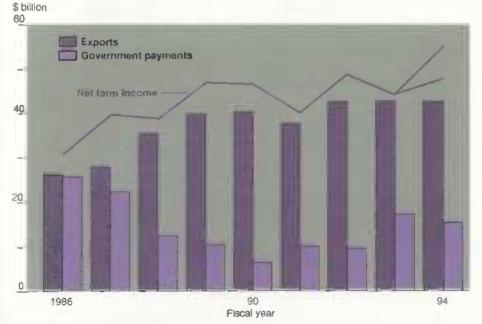
Export subsidies, especially in the EC, have retarded U.S. trade and reduced farm income over the past decade. The EC's high domestic prices have been protected by variable levies on imports that spur domestic production, and the resulting surpluses have been dumped on world markets, using the export subsidies. As a result, the EC has transformed itself from a net importer to a net exporter of many commodities, including grain, beef, and dairy products.

In the 11th hour of the GATT talks, the U.S. and the EC were able to agree on limiting subsidized grain exports and other farm subsidies.

Making the Case for Trade Liberalization

Among GATT's bonuses is its effect on potential trade with developing nations. As economies develop and industrialize, they often become more protective of their agriculture sectors. The Uruguay Round agreement would limit these countries' ability to choose a protectionist path of closed markets, internal supports, and subsidized exports. The U.S.

Farm Exports Steady, As Farm Income Forecast To Climb in 1994



1993 estimate. 1994 forecast range.

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currently sells well over 40 percent of its farm exports to developing countries, which have a powerful market potential as their populations and economies grow.

The drastic reduction of Japan's 1993 rice crop following a typhoon is an illustration of the global benefits of liberalized trade. Japan has kept a tight lock on its rice market, keeping out imports and exerting a policy of self-sufficiency in rice production. The typhoon helped loosen the lock. The U.S. has already shipped some rice to Japan, more will be exported this year, and Japan has announced it will partially open its rice market to imports.

Finely calculated national policies like self-sufficiency and food security can never be absolutely guaranteed. Nature and other unforeseen circumstances can upset the best laid plans. The only effective way to assure real food security is to open world markets, drop trade barriers, and allow those who need the products to take advantage of what is available. This is what liberalized trade is about-it benefits everyone, buyers and sellers. And U.S. farmers, productive and efficient, not only have the ability to compete in a liberalized trade environment, but need open markets for their products in order to continue operating successfully. Promoting a liberalized trade environment for agriculture will remain a top USDA priority. AO

The next issue of Agricultural Outlook will appear in March. AO is not published in February.

The editorial staff wishes our readers a ***APPY and ***PRODUCTIVE**
NEW YEAR.

Commodity Overview



U.S. Farm Output To Rebound In 1994

return to normal weather in 1994 should set the stage for a more productive year for U.S. agriculture. With recovery from the flood and drought of 1993, crop production will likely increase 5 to 10 percent. Added to an expected record output of animal products, this would raise total farm production 5 percent from last year.

Higher prices for many commodities are expected, due to last year's smaller crop and reduced carryin. Larger output and higher crop prices will mean increased marketing revenue for farmers in 1994. However, in the absence of adverse weather, government payments are likely to be lower. Farmers' production expenses will rise with expanded crop acreage and higher prices for some inputs, including feed.

Global Demand To Rise in 1994

Global demand for agricultural commodities will be stronger in 1994 than last year, as real economic growth doubles to about 2.5 percent. Population will continue to expand by about 1.7 percent a year, fueling demand for food products. Growth in demand in 1994 will be especially strong in Asia and parts of Latin America. Domestic U.S. demand is forecast up in 1994 due to expectations of stronger U.S. economic growth.

Net cash income, which measures total income received in a year regardless of when the marketed output was produced, is forecast at \$55-\$62 billion in 1994, with the midpoint about matching the \$59 billion estimated for 1993. Net farm income, which measures the value of net income from the current year's production, is projected at \$47-\$54 billion in 1994, with the midpoint 15 percent above the estimate of \$44 billion for 1993.

Accounting for the higher expected net farm income are expanded crop production and an increase in the value of inventories. Because net farm income adjusts for beginning and ending inventories, changes in inventories have a major impact in computing net farm income.

Retail food prices are expected to rise a modest 2 to 4 percent in 1994, following an estimated 2-percent increase in 1993. Larger food production in 1994, coupled with a moderate rise in food marketing costs, will hold down increases in food prices.

U.S. Grain Output Expected To Recover

Assuming favorable weather, U.S. wheat plantings in 1994 are likely to be near last year's level. Factoring in trend yields, production should be higher. However, some winter wheat producers have already had planting difficulties because of late corn and soybean harvests and unfavorable weather.

Foreign wheat production in 1994/95 will be influenced by a number of economic, political, and policy developments, but as usual, will depend largely on weather. Planting reports point to a drop in winter wheat area in the former Soviet Union (FSU), and much of the region just suffered through one of the coldest Novembers on record. But conditions to date have been favorable in China, and a rebound in wheat production is expected in North Africa.

A major uncertainty is how producers in the European Community (EC) will respond to reduced support prices and required idling of cropland. Relative yields in EC countries seem to favor planting wheat over other crops. Strong prices for high-quality wheat will likely also lead to large plantings in Canada and Australia. Wheat supplies of these exporters will likely remain relatively larger in 1994/95 even with a drop in carryin stock.

With normal weather, global rice production could expand in 1994. World prices are expected to remain higher than last year as import demand, particularly from Japan, continues to be strong and export supplies remain relatively tight.

World rice trade in calendar 1994 is forecast to rise 10 percent from last year to around 15.4 million metric tons. The U.S. share of the world market is expected to rise slightly to 18.2 percent in calendar 1994, compared with 17.9 percent in 1993.

U.S. corn production in 1994 will be larger than last year, assuming trend yields, reduced area idled under government set-aside programs, and prices well above a year earlier at planting time. As with wheat, production in the FSU will have a large impact on total foreign coarse grain production.

Also like wheat, another major uncertainty is EC producers' response to reduced support prices and required idling of cropland. Historical data indicate that coarse grains, especially barley, are at a disadvantage in competing for area with other crops in the EC. In Eastern Europe, normal weather is expected to lead to a rebotind.

Global Oilseed Crop To Be Record

Global oilseed supplies in 1994/95 will likely be at record levels in the absence of any serious weather problems in major producing countries. The U.S. will account for most of this gain, assuming more normal crop yields and a slight expansion in area. Higher prices for soybeans at planting will encourage more U.S. soybean area.

Although foreign oilseed supplies may show a small gain in 1994/95, U.S. soybean and soybean meal exports may show only a small recovery from 1993's lower levels. This is because weaker demand for protein feeds will likely persist, particularly in Europe and the FSU. Growth in emerging markets such as Mexico will account for much of the limited gains in U.S. exports.

Domestic U.S. soybean meal use should show a modest rise, helping soybean crush to recover from 1993's low. However, crush will remain below the record 1,279 million bushels of 1992/93.

With the rise in use trailing the increase in total supplies, U.S. soybean ending stocks should rise to 250-280 million bushels in 1994/95. Season-average soybean farm prices in 1994/95 are expected to decline and to be near or slightly above those in 1992/93.

The world protein meal outlook is dominated by events in the EC, Eastern Europe, and the FSU. These regions together account for about 40 percent of foreign protein use and an even larger share of world trade.

Continuing financial and credit problems, along with declining livestock herds, are hurting demand in Eastern Europe and the FSU, while the implementation of CAP reform policies in the EC is leading to a substantial drop in grain prices relative to protein feeds, encouraging substitution of grains for protein meals. While protein meal demand is also stagnant in some other industrial markets, like Japan, rapid growth in 1993/94 is forecast for several countries in Latin America, Southeast Asla, and North Africa.

U.S. Cotton Output To Remain Unchanged

An early look at 1994/95 indicates that cotton production slightly above the current level would balance anticipated use and achieve the 30-percent stocks-to-use ratio targeted in the current Farm Act. To encourage this level of production, a preliminary 17.5-percent acreage reduction program (ARP) for upland cotton was announced November 1. A final ARP decision was expected by the end of December, taking into account any changes in supply and demand which have occurred since October.

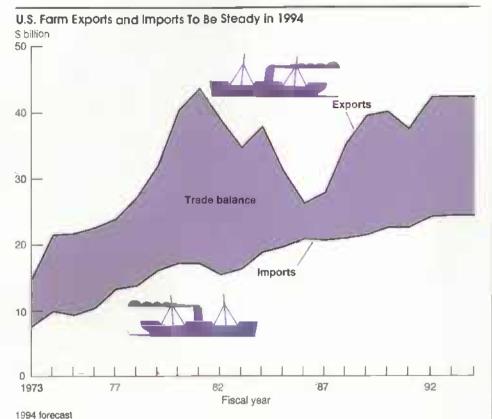
U.S. cotton exports may increase in 1994/95, but growth will be tempered by static world trade and continuing strong foreign competition. Although global use is expected to be a record in 1994/95, most of the increase will likely occur in major producing countries, continuing the trend of recent years and limiting import growth.

World cotton trade may grow only 1-2 percent in 1994/95, to 27 million bales. Assuming the U.S. export share falls within the 20-25-percent range seen in the past three seasons, U.S. exports could total 5.5-7 million bales, compared with 5.9 million in 1993/94.

Broilers Lead Animal Products Expansion

World animal product output likely will increase a little over 2 percent in 1994, following a 1.5-percent expansion last year and 1.7 percent in 1992. Poultry meat production will lead the expansion. World poultry output is projected to increase nearly 4 percent in 1994, about the same as a year earlier but below the 6-percent rise in 1992.

Red meat production will be up 1 to 2 percent in 1994, following a rise last year of nearly 1 percent. Pork output is expected to expand 2 to 3 percent in 1994,



while beef production will hold near the estimated 1993 level of 45.8 million metric tons.

Total U.S. meat production in 1994 will increase around 3 percent from 1993's record-large output. Broilers will continue a longrun upward trend, while pork slips a little and beef output increases.

U.S. producers are holding more replacement heifers than a year ago, and a modest expansion in the cattle inventory continues to be underway. The cattle inventory of January 1, 1994 is expected to be up 1 percent from a year earlier.

Inventories of cattle on feed remained sharply above a year earlier during 1993, despite placements that have been near 1992's level. The pace of marketings has been slow. Feeder cattle supplies should be large enough to support increased placements in the coming months. This should support larger fed cattle marketings into 1994. Cow slaughter in 1994 likely will be little changed from the 1993 level of 6.1 million head.

In recent months, slaughter weights have recovered from weather-induced stress levels of early 1993 and are now near record-high levels. Average weights in the first half of 1994 are expected to be up from the low levels of a year earlier. For all of 1994, average weights are expected to be higher, and beef production likely will rise 3-4 percent from a year ago.

Pork production in the U.S. is expected to remain below a year earlier through mid-1994. Output in the second half of 1994 is expected to rise, but a small decrease is forecast for all of 1994. Hog prices in 1994 are forecast to average near the 1993 level which should cover cash expenses for most producers.

U.S. poultry meat production continues its upward trend. Broiler production increases of 5 percent are expected for 1994 as in 1993. Despite increased production, broiler prices have been higher than a year earlier. Strong export demand has helped support broiler prices, and continued strong exports in 1994 are again expected to buttress prices. The 12-

city broiler price, estimated to average in the mid-50 cents per pound last year, is expected to be down only slightly in 1994. These prices point to continued positive returns for producers.

A small increase in U.S. turkey production is expected in 1994, the result of prices about 4 percent above a year earlier in 1993. Turkey hen prices in fourth-quarter 1993 were the highest since 1989. Contributing to the higher prices were strong exports.

Egg production will increase about 1 percent in 1994, about the same as a year ago, and prices are expected to decline. Egg producers achieved favorable returns in 1993 and held the flock size above a year earlier.

U.S. Ag Exports Remain Steady

U.S. agricultural exports in fiscal 1994 are forecast to match last year'sslightly above fiscal 1992's \$42.3 billion, but still below 1981's record \$43.8 billion. Lower export volumes for wheat, feed grains, and oilseeds will be partially offset by higher export prices, particularly for corn and soybeans. Rice and cotton exports will rise in volume and value. High-value product sales will increase again, aided by rising global demand, falling trade barriers, tariff reductions in a number of countries, and U.S. export promotion activities. While the dollar is expected to strengthen somewhat in 1994, it will not increase enough to significantly dampen U.S. competitiveness in this growing market.

Japan will continue to be the top market (nearly \$9 billion) for U.S. agricultural exports in FY '94, with beef, feed grains, and rice leading the increase. The EC and Canada are the second and third leading markets for U.S. agricultural exports, and Mexico is firmly in fourth place. Exports to Mexico are projected to be a record \$3.9 billion in fiscal 1994, up 5 percent from last year.

U.S. agricultural imports as well as exports for fiscal 1994 are forecast to match last year's. Tobacco imports will be down, but U.S. imports of most other

products will be the same or slightly higher. The value of U.S. imports of cocoa and coffee is likely to show a modest gain due to slightly stronger prices.

[James Donald, Chair, World Agricultural Outlook Board, USDA (202) 720-6030]

Agriculture In 1994: Backdrop & Outlook

n unusual combination of fairly strong economic growth combined with low interest and inflation rates will have a favorable impact on U.S. agriculture in 1994. U.S. economic growth in 1994 is forecast to exceed 3 percent, the highest rate since 1988. A broad array of indicators is currently pointing toward strong real growth in fourth-quarter 1993, which is expected to carry into 1994.

This expansion is and will continue to be fueled by greater consumer and investment spending, which is overcoming stagnant net exports and smaller increases in government expenditures. Strong growth in personal income and lower unemployment typically support food and fiber demand. These two factors will be particularly helpful in absorbing the large meat supplies expected in 1994, supporting both grain and livestock prices.

Interest rates remain near 30-year lows, and inflation is modest and stable, helping to slow growth in farm production expenses for several years. However, while inflation is forecast to remain near the current 3 percent in 1994, increased demand for credit in 1994 should push interest rates up. Short-term rates are expected to rise about 1 percentage point by the end of 1994, adding \$0.5-\$1 billion to farm interest expenses.

To a lesser extent, economic growth internationally will also support greater farm sales in 1994. The zero-to-negative real income growth achieved in 1993 among the developed countries is likely to be replaced by slow-to-moderate recoveries. And although the nations of the former Soviet Union and Eastern Europe face another year of negative economic growth, the drop will be less than in 1993.

Some Farms Still Vulnerable

The financial status of U.S. agriculture, as well as domestic and global income growth, help form the backdrop for evaluating the economic health of the farm sector in 1994. Financial surveys of farms following 1992's record harvest indicated a gradual and steady improvement in the financial condition of the farm sector since the mid-1980's. Much of this improvement occurred prior to 1990, and the improvements since have been much smaller.

Even so, as U.S. farmers approached the 1993 growing season, record-high cash receipts in 1992 and 1993, high livestock prices, low interest rates, several new export promotion packages, and an improving global economy presented a picture of an agricultural economy continuing a slow but steady path toward financial improvement.

What followed in the summer of 1993 radically changed the farm outlook, with heavy rains and the worst flooding in over 100 years. The index of crop production in 1993 dropped 13 percent from a year earlier. And because the drop in production was concentrated in the flood areas, the losses have drawn attention to the financial status of Midwest farms.

The flood losses could affect a large number of farms simultaneously, making this a national concern. Entering 1993, about 15 percent of commercial-size farms (\$40,000 or more in annual sales) in the nine flood-affected Midwest states were either highly leveraged (debt-to-asset ratios above 40 percent) and thus very susceptible to income losses, or were highly leveraged as well as reporting negative net farm income.

Many of the farms that make up the 15 percent of Midwest commercial-size farms in difficult financial condition have been in this condition for several years. An additional 20 percent of Midwest farms had income losses in 1992, but had relatively low debt levels.

Flood Cuts 1993 Crop Drastically

In November 1993, the corn crop was estimated down 3 billion bushels from the year before, and the soybean crop down more than 350 million bushels. The rains and flood of 1993 plunged expected corn carryover stocks to the lowest level since the 1975/76 season, and soybean stocks to the lowest since 1977/78.

Reduced corn supplies, lower quality, and higher prices are expected to reduce feed use by 8 percent and exports by 19 percent in 1993/94. In addition to smaller corn and soybean crops in 1993, production levels of wheat, rice, sorghum, barley, and oats are all down.

Prices have generally increased in response to 1993-crop reductions. Compared with a year earlier, cash comprices are up about \$0.70 a bushel, soybeans up \$1.20 a bushel, and wheat prices are about the same as last year despite larger stocks.

After a period of relatively stable average annual corn and soybean prices since 1989, livestock producers now face much higher feed costs. The cushion provided by stocks and "bargain prices" derived from 1992's exceptional crop yields is now gone, replaced by tight stocks, lower grain quality, higher prices and, in some areas, poor-quality hay supplies.

Were it not for 1992's record feed grain yields, livestock producers would now be initiating heavy liquidations of their herds, leading to large increases in retail food prices in the latter half of 1994 and in 1995. Instead, most livestock producers appear to be riding out the feed price runup with little herd liquidation. They have instead faced shrinking profit margins.

Larger Crops Forecast for 1994

A "zero" acreage reduction program (ARP) will be in effect for wheat, corn, sorghum, barley, and oats in 1994. This is the first time there have been simultaneous zero-level ARP's since they were authorized in the 1981 Farm Act for 1982 crops. The reduction to zero from a preliminary 5 percent was due to a 9-percent drop in the estimate for 1993 feed grain production between September and November. The smaller production and low stocks have made the feed-livestock economy highly vulnerable to bad weather in 1994.

Although the zero ARP will not restore all the lost feed grain production, it will help the feed-livestock economy in several ways. First, it will enable corn producers to plant an additional 3 million acres in 1994, which with normal weather would raise 1994 production about 225 million bushels, or about 3 percent, above output with a 5-percent ARP.

Second, the ARP change will raise corn sector income and economic activity generally. A smaller ARP may mean slightly lower prices than otherwise, but the ability to plant and receive income and program benefits on more acres will offset any price effect. The ARP change is estimated to raise net income to corn producers over \$200 million in 1994. For a farm with a 250-acre corn base and a program yield of 105 bushels per acre, a reduction in ARP from 5 to 0 percent increases gross income by an estimated \$3,475 and net income by \$1,740.

Third, the reduction in the ARP will also benefit producers who are unable to plant because of this year's flooding in the Midwest. These producers will be able to enroll in the 0/85/92 program in 1994, placing program acres into conserving uses. Thus, producers enrolling in the 0/85/92 program who are unable to plant because of flooding will have their base acreage protected.

Acreage eligible for 0/92 payments will be 6 percent larger than with a 5-percent ARP. If a farm with a 250-acre corn base and a 105-bushel program yield is prevented from planting in 1994 because of the floods, reducing the ARP from 5 to 0 percent will increase 0/92 payments by \$2,150.

The overall tightening of commodity markets this season makes weather critical for 1994. Nearly 13 million acres of land was inundated in the nine flood-affected states. In addition, excessive rains soaked 40 million acres of highly erodible cropland, much of which suffered severe erosion. Land that can be reclaimed may not be usable until late in 1994 and in 1995. Once reclaimed, these lands cannot be expected to have a normal yield even with normal weather. In addition, not all levees will be repaired in time for spring planting, making affected land subject to flooding.

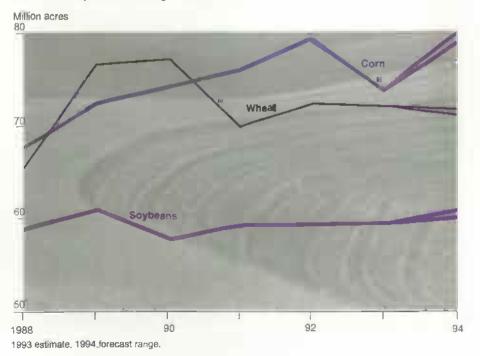
Taking into account the program changes and the weather effects, current estimates place 1994 corn plantings at 79-80 million acres, soybeans at 60-61 million, and wheat at 71-72 million. Corn acreage would be up about 6 million acres and soybeans up about 1 million compared with last year, while wheat plantings would be about the same as last year.

With normal yields, corn ending stocks would be 1.3-1.5 billion bushels by the end of 1994/95, wheat would remain at the level expected at the end of 1993/94, and soybeans would be 260-280 million bushels. These would be adequate, but not excessive, stocks.

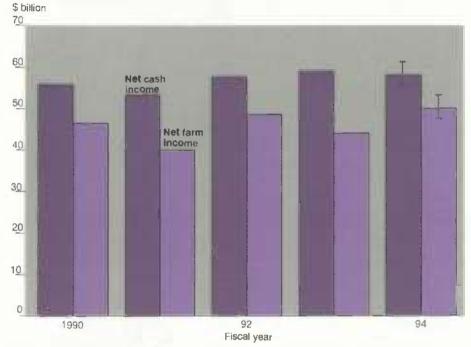
Production forecasts for 1994 upland cotton and rice depend on final program announcements that are yet to be made. The preliminary 1994 cotton ARP was set at 17.5 percent but is subject to change, and the November crop report suggests a lower final ARP. December's crop production report was the last information on the size of the 1993 cotton crop before the final decision due by January 1. Strong export demand and lower 1993 production have led to a zero ARP for rice.

Fourth-quarter 1993 beef production was expected to be up sharply from a year earlier, and production will remain higher during the first half of 1994. Pork output in 1993 was below a year earlier and, with higher feed costs, about the same production is expected in 1994. Poultry production is expected to be profitable

Corn and Soybean Plantings To Increase



Net Farm Income To Rise In 1994



Net cash income measures total net income received in a year regardless of when the marketed output was produced. Net farm income measures the value of income from the current year's production.

1994 forecast range.

and up again in 1994. For 1994, increases in beef and poultry production are expected to result in a 3-percent rise in total meat production, compared with 1 percent last year.

Net Farm Income Expected Higher

Assuming a return to normal yields, farmers' aggregate net cash income in 1994 is likely to remain near last year's \$59 billion. Higher prices are expected to raise crop cash receipts, and large disaster payments made in 1994 will limit the drop in government payments. However, slight declines in livestock receipts and higher production expenses will prevent any increase in overall net cash income (gross cash income received by farmers in a calendar year, regardless of which year's output is sold, minus cash expenses incurred during the year).

In contrast, with normal yields in 1994, increases in the value of inventories could cause a sharp rise in net farm income—the amount earned from the year's output—from 1993's reduced

level. On a farm household level, income from farming could rise by several hundred dollars in 1993 and 1994 from 1992's U.S. average of \$4,337 per household.

However, aggregate net cash income and net farm income fail to provide an adequate picture for farmers affected by 1993's flooding and drought. For example, the value of major field crops in 1993 is down an estimated \$2.2 billion in Iowa, but up by \$340 million in Indiana. Lost production in 1993 will reduce cash receipts in flood-affected states in both 1993 and 1994.

The disaster legislation passed by Congress in 1993 will help to offset the financial effects on farmers of flooding and drought. Disaster payments for 1993-crop losses are expected to total nearly \$2.4 billion.

In addition to receiving disaster payments, farmers adversely affected by flooding and drought may have signed up for 0/92 payments, and some may have crop insurance. Most producers participating in the annual acreage reduction

program who elected to purchase crop insurance, and who can reclaim their land, should be able to recover from this year's flooding and drought.

Crop insurance, disaster, and 0/92 payments to a corn producer who participated in the corn program, has crop insurance, and did not harvest a crop in 1993, are estimated to cover about 90 percent of gross income that was expected before the floods hit. But the same producer without crop insurance will receive disaster and 0/92 payments totaling less than 50 percent of pre-flood gross income.

Finally, program nonparticipants without crop insurance will receive disaster payments equivalent to about 25 percent of the gross income they would have earned without the floods. This coverage, of course, is for 1993 crop losses and does not compensate at all for future losses due to long-term damage to land or loss of buildings and homes.

Food Prices To Rise Modestly

Retail food prices are expected to increase 2-4 percent in 1994. But during the first half of the year, record meat supplies could lead to lower retail beef and poultry prices. Retail egg and fresh vegetable prices could also be down in 1994. In addition, the relatively low rate of inflation in the general economy will tend to limit food price increases.

The primary effects of 1993's reduced grain supplies on retail food prices will not begin to show up until the second half of 1994. However, normal weather, coupled with moderate crop prices during the latter half of 1994, should give the signal to livestock producers to continue building their herds

The Consumer Price Index (CPI) for food is expected to increase about 2 percent in 1993, the third consecutive year in which food price inflation has been substantially less than the overall increase in the CPI. Thus far, the 1993 weather has had little impact on the food CPI. Most of the damage involved com

and soybeans, which are mostly inputs in meat and poultry production rather than final consumer products. Long production cycles for beef and pork tend to retard the transmission of feed price increases to consumers.

The food CPI for poultry has increased monthly since July, which is consistent with the shorter production cycle for poultry. These increases, however, will not have a noticeable impact on the overall CPI for food.

Issues To Watch; NAFTA, Ethanol, bST

The North American Free Trade Agreement (NAFTA), ethanol, and bST are policy issues that will affect the farm sector in 1994. With implementation of NAFTA, a number of agricultural commodities will enter Mexico duty-free immediately. Longrun gains will be ample, but immediate trade expansion is expected for beef, cattle, corn, and some fruits such as pears.

During the first three quarters of 1993, U.S. beef exports to Mexico were down 37 percent from a year earlier and cattle exports down 69 percent. The reductions were the result of tariff rates of 15 to 25 percent imposed by Mexico in 1992. These tariffs were eliminated immediately under NAFTA, and trade is expected to return quickly to pre-1993 levels.

Another commodity to enjoy an early effect is corn. Mexico's current import license program, which limits U.S. corn exports, is replaced by a 2.5-million-ton tariff rate quota (TRQ) in 1994 and a 2.6-million-ton TRQ in 1995. Mexico is expected to import the full 5.1 million tons over 1994 and 1995, more than double the amount expected without a NAFTA.

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Implementation of the Clean Air Act amendments of 1990 and the Energy Policy Act of 1992 are expected to enhance the role of ethanol in the market-place. Since the Oxygenated Fuels Program began in November 1992, ethanol has played a major role in reducing harmful carbon monoxide in such cities as Phoenix and Denver.

Demand for ethanol as a fuel oxygenate was a major reason over 1 billion gallons of ethanol was blended into gasoline in 1993, using 450 million bushels of corn. The Environmental Protection Agency's (EPA) proposed rule for the reformulated gasoline program is expected to give ethanol, and ethanol derivatives, an opportunity to compete in the reformulated gasoline market beginning in 1995.

The approval of recombinant bST, the hormone for increasing milk production in dairy cows, means that its use will begin in the first quarter of 1994. With FDA's finding that bST is safe for humans, animals, and the environment, USDA forecasts virtually no effect on total milk use. And little effect on milk production is foreseen. About 10 percent of the nation's milk cows are expected to be receiving bST by the end of 1994.

Finally, the longrun strength of the agricultural economy will depend on growth in the global economy, which is intimately linked to liberalized trade. Debate on the 1995 farm bill is approaching, with concerns over the budget, conservation, and environmental protection Decisions about the Conservation Reserve, the Clean Water Act reauthorization, pesticides, food safety, and nutrition will affect the selection of foods that are produced, how they are produced, and how they are handled from farm to table. [Keith Collins, Acting Assistant Secretary for Economics, USDA]



U.S. Ag Exports Steady In FY '94

The first export forecasts for fiscal 1994 show virtually no change in overall value from last year, despite some significant changes for individual products and markets. Most longer term projections are more optimistic, for a number of reasons that include a new convergence of U.S. foreign policy and trade policy in the post-Cold War world.

U.S. agricultural exports for fiscal 1994 are again pegged at about \$42.5 billion. With imports also forecast unchanged from last year, an agricultural trade surplus of \$18 billion is again expected. Export volume, however, is expected to drop about 10 percent as shipments of corn, wheat, and soybeans decline.

The stagnant trade forecast for fiscal 1994 is due to relatively weak prospects for economic growth in Europe and Japan; smaller supplies of U.S. grains and oilseeds at generally higher prices; increased grain production by several important competitors and importers; and

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major uncertainties regarding exports to the former Soviet Union (FSU) and China.

On the positive side, U.S. export programs and some important trade and policy developments in key importing countries such as Japan and Mexico have kept 1994 forecast export value from dropping. In addition, the variety of products exported, as well as the diversity of markets served, help support 1994 exports.

U.S. Bulk Exports To Decline . . .

U.S. exports of most major bulk agricultural commodities are expected to be smaller in fiscal 1994 than in 1993. U.S. wheat and flour exports are expected to drop 17 percent in volume, and export value could be down nearly 20 percent due to lower average wheat prices. Behind these forecasts are reduced import demand in the former Soviet republics and south Asia, as well as another year of weak sales to China, which harvested a record wheat crop in 1993.

U.S. coarse grain exports, which are about 80 percent corn, are expected to drop 15 percent in volume. But sharply higher U.S. corn and sorghum prices, reflecting flood-reduced crops, will likely put the value of exports near 1993's \$5.3 billion.

The smaller coarse grain volume is due to relatively higher U.S. prices, increased competition, and larger harvests in southern Africa, Eastern Europe, and Canada. China is expected to achieve record corn exports, further displacing U.S. corn in South Korea and some other Pacific Rimmarkets.

U.S. oilseed exports are forecast to drop 4 million tons, or 15 percent, in fiscal 1994, although higher trading prices should hold value above \$7 billion. U.S. sales to the European Community (EC) will be down as grains are substituted for protein meals in EC feed rations due to ongoing cuts in grain prices there. The U.S. will also face increased competition from larger expected oilseed harvests in South America.

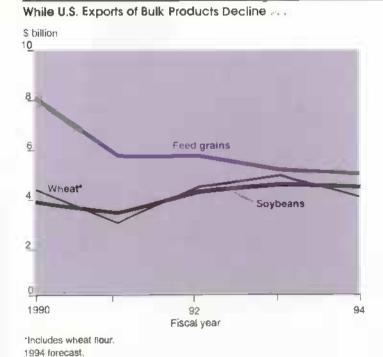
In contrast, cotton and rice exports will be higher in 1994. U.S. rice exports in calendar 1994 are forecast at 2.8 million metric tons valued at \$1.1 billion. up over \$300 million, or more than 40 percent from last year. For the first time in decades, Japan is buying rice from the U.S., accounting for most of the increase in U.S. rice exports and price.

For U.S. cotton exports, modest increases in volume and value are forecast for fiscal 1994, boosted by larger U.S. supplies and increased import demand by some traditional exporters, such as Mexico.

. . . But High-Value Exports To Rise

Unlike most bulk commodities, U.S. exports of high-value products are forecast up in fiscal 1994. Another record year is expected for U.S. livestock, dairy, and poultry product exports, with value forecast at \$8.5 billion.

Greater imports of beef, pork, and variety meats are forecast for Japan, South Korea, and Mexico, reflecting more open





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markets, rising incomes, and the shift in tastes to more meats in their diets. Sales of U.S. broiler parts to these countries are expanding rapidly.

A record year for U.S. horticultural products is also forecast for 1994, with sales expected to reach \$7.5 billion. Most of the expected increase, over \$300 million, is due to larger exports of fruits, vegetables, and juices to Canada, Japan, and the EC. Marketing activities have been particularly effective in capitalizing on the growing foreign demand for more fruits and vegetables as part of a move to more healthful diets in developed countries.

U.S. consumer-oriented exports, which include everything from snack foods to meats to fruits and vegetables, now amount to more than one-third of U.S. agricultural exports, up from 14 percent a decade ago. These value-added products set a seventh straight annual record in fiscal 1993 at close to \$15 billion.

Two other commodity sectors included in USDA's marketing efforts, and now reported with agricultural statistics, are contributing to record farm exports. Fish and wood products, if added to U.S. agricultural exports, propel the total for fiscal 1993 to \$52.7 billion. That's the highest combined total ever, boosted by the rapid growth in U.S. forest product exports as Pacific Rim markets experience a construction boom.

Asia Remains Largest Market for U.S.

Asia is the fastest growing economic region in the world and the largest regional market for U.S. agricultural exports—accounting for over \$16 billion or nearly 40 percent of U.S. exports in fiscal 1993. East Asia takes close to 90 percent of these exports.

Although certain countries in East Asia maintain some of the most persistent and challenging barriers to trade, this is also a region with the greatest potential as an export outlet through market-opening agreements. Due largely to successful trade policy, U.S. agricultural exports to Japan in fiscal 1994 are forecast to set another record at \$8.9 billion, despite

continued weakness in the Japanese economy. Gains are expected in rice, beef, and a wide range of high-value products. Elsewhere in East Asia, South Korea and Taiwan are each expected to purchase \$2 billion or more of U.S. agricultural exports over the coming year.

U.S. agricultural exports to China in fiscal 1994 are forecast at \$300 million, less than half the level of fiscal 1992. However, this forecast bears a high level of uncertainty because of the many economic reforms China has launched. Longer term prospects depend on improved market access and the resolution of a number of trade issues, as well as issues related to China's request for most-favored-nation status.

Nevertheless, China represents a potentially large and growing market for many U.S. agricultural products, including wheat, protein meals, and a wide variety of value-added products. U.S. exports have been especially strong in the southern coastal plains of China, where incomes are three times China's national average.

In fact, the rapid gains in U.S. agricultural exports to Hong Kong partly reflect products going into southern China. An estimated one-third of Hong Kong's imports are being re-exported to China. Of course, other countries see these opportunities as well.

NAFTA & Beyond

U.S. agricultural exports within the Western Hemisphere now exceed \$12 billion, led by Canada and Mexico, the secondand third-largest single-country markets for U.S. agricultural exports, after Japan.

Sales to Canada reached a record of more than \$5 billion in fiscal 1993, with consumer-oriented products dominating. Although Canada is a relatively mature market, further moderate export growth is expected, particularly for fresh fruits and value-added consumer-ready products.

But the strongest growth potential for U.S. agricultural exports in the Western Hemisphere lies in Mexico and South

America. Latin America is the secondfastest-growing region in the world, and market-oriented reforms are sweeping this hemisphere.

NAFTA, in effect begining January 1, 1994, has significant implications for U.S. agricultural exports over the longer term. Mexico is forecast to import \$10 billion annually in U.S. agricultural products when the agreement is fully implemented over the next 15 years.

U.S. agricultural exports to Mexico dipped slightly in 1993 but are forecast to set a record of nearly \$4 billion in 1994. The two key expansion factors are stronger growth expected in the Mexican economy, and the PROCAMPO program for agricultural reform announced by President Salinas in October. PROCAMPO will accelerate the shift to free-market prices and decouple farm supports from production in Mexico's agriculture.

The U.S. will be seeking to negotiate free-trade agreements with other countries in the Western Hemisphere, either as part of NAFTA or as separate bilateral accords. Chile is the first prospective candidate.

GATT Is Critical To U.S.-EC Trade

The EC, a leading market for U.S. soybeans, tobacco, feeds, cotton, tree nuts, fruits and vegetables, and other products, will continue to be a significant customer for U.S. agriculture.

U.S. agricultural exports to the EC in fiscal 1994 are forecast to be \$7 billion, the same as 1993. Over the next few years, U.S. exports could benefit from an economic recovery in the EC and from reform of the Community's Common Agricultural Policy, which will likely reduce EC coarse grain exports and oilseed production and slow the growth in EC wheat production.

But the most important single contingency affecting U.S.-EC trade has been a successful conclusion of the Uruguay Round of the General Agreement on

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Tariffs and Trade (GATT). The successful Round will curb export subsidies, discipline internal farm supports, encourage market-oriented reforms worldwide, provide clear rules for phytosanitary regulations, and provide a market access commitment without the need for bilateral negotiations.

Exports to FSU To Contract

U.S. agricultural exports to countries of the former Soviet Union are forecast to be \$1.2 billion in fiscal 1994, down more than \$350 million from 1993 and less than half 1992's value.

A great deal of uncertainty clouds the outlook for trade with these countries. U.S. export assistance programs will continue to play a major role in exports to the countries of the FSU.

Although Russia has been suspended from the GSM-102 export credit guarantee program for about a year, it is being reevaluated for creditworthiness. Russia was once an annual market for about 20 million tons of grain alone. That market is now shrinking but will remain significant. On the brighter side, Russia is now the fifth-largest foreign market for U.S. snack foods, and this market is growing.

Fiscal 1994 GSM-102 programs for Ukraine and Turkmenistan have already been announced. In addition, P.L. 480 Title I programs are in effect for several of the newly independent states.

Policy Role Is Pivotal

Since 1990, U.S. agricultural exports have been relatively stagnant—growing about 1.5 percent a year. Although most longer term projections are for stronger growth based on a likely economic recovery abroad, the outlook still falls far short of an open, dynamic, fast-growing export market capable of absorbing greater U.S. agricultural production.

U.S. agricultural trade could expand faster with elimination of a number of obstacles—self-sufficiency policies in food staples, government control of markets, agricultural protectionism, and unfair trade practices. In fact, rising demand for farm products in fast-growing developing countries may not translate into greater trade unless markets are opened. This is why foreign policy will play a pivotal role in the U.S. export future.

If current pressures for market liberalization are institutionalized through a successful GATT and other agreements, developing countries will be dissuaded from providing farm subsidies and promoting trade-inhibiting protection of domestic producers. And in high-income countries, GATT will afford protection against restrictive new food laws inhibiting the import of consumer-oriented foods, the fastest growing category of U.S. exports. These are just a few of the benefits to be derived from GATT.

NAFTA was a first step in a long-term hemispheric vision of growing trade and strong economic growth. And the Asian Pacific Economic Community meeting in Seattle in November 1993 was just a beginning to an economic alliance with fast-growing Asian and other Pacific Rim countries. But the foundation of more open trade has been laid.

For the first time in many decades, U.S. foreign policy will be defined in large part by economic and trade priorities, not by Cold War objectives which at times put foreign policy at odds with free and open trade. As a result, agriculture may now face the most favorable policy climate for export growth in recent history.

In the new world order, agriculture everywhere will be affected by more factors, not fewer, and greater pressures to respond quickly to changing conditions. The pace of market liberalization, new production and processing technologies, the health and stability of the world economy, political relationships among nations, fiscal and environmental pressures in the U.S. and abroad, global humanitarian issues, food safety and quality concerns, and the growing voice and rapidly changing demands of consumers worldwide will influence the future of agricultural trade. This new environment plays to the historic strength and adaptability of U.S. agriculture.

Providing the opportunity to use these strengths is the task and the challenge of trade policy, and is critical to the growth and prosperity of U.S. agriculture.

[Eugene Moos, Under Secretary for International Affairs and Commodity Programs, USDA]

January Releases—USDA's Agricultural Statistics Board

The following reports are issued at 3 p.m. Eastern time on the dates shown.

January

- 5 Broiler Hatchery Dairy Products Poultry Slaughter
- 10 Egg Produ**cts**
- 12 Broiler Hatchery
 Cotton Ginnings
 Crop Production
 Crop Production, Annual
 Grain Stocks
 Rice Stocks
 Winter Wheat & Rye
 Seedings
- 13 Turkey Hatchery
- 14 Milk Production Potato Stocks Turkeys
- 18 Vegetables Vegetables, Annual
- 19 Broiler Hatchery
- 20 Noncitrus Fruits & Nuts. Preliminary
- 21 Catfish Processing Cold Storage Livestock Slaughter
- 25 Cotton Glnnings Crop Values
- 26 Broiler Hatchery Peanut Stocks & Processing
- 27 Chickens & Eggs Layers & Egg Production, Annual
- 28 Cattle on Feed Sheep & Goats Sheep & Lambs on Feed
- 31 Agricultural Prices
 Capacity of Refrigerated
 Warehouses



Nutrition: Blending Policy & Programs

SDA Secretary Mike Espy has proposed reorganizing USDA around six central missions to reflect contemporary concerns and needs. USDA recognizes the need to go beyond its role in improving the production and distribution of food, and to establish nutrition education programs that promote healthful eating habits. So in the new USDA, nutrition is elevated to a priority mission.

Forging a Common Focus

For nearly half a century, USDA has woven an intricate network of programs to provide access to food. Programs such as the Food Stamp Program, WIC, School Lunch Program, and others have provided food to many needy people. Yet, despite the unquestionable value of these programs, they have lacked a common identity and focus. In the reorgan-

ized USDA, the food programs will become nutrition assistance programs, recognizing that nutrition is a basic ingredient of preventive health care.

Each school day, USDA provides meals to some 25 million children in 90,000 schools across the country. But a recent USDA study found the meals served to and eaten by schoolchildren exceed dietary guidelines for fat, saturated fat, and sodium.

Given the scientific evidence of the link between diet and health, it is essential to improve the nutritional quality of the school meals. The Department has a responsibility to concerned parents, taxpayers, and the millions of children who eat a school meal each day, to ensure that those meals conform to the Federal government's nutrition policy indicated in USDA's "Dietary Guidelines for Americans."

USDA recently completed a series of regional forums focusing on ways to improve the nutritional quality of the school meal programs. This issue touches everyone—in school and out. Parents, teachers, students, pediatricians, food-service workers, cardiologists, coaches, farmers, and chefs have testified at these forums.

USDA has already doubled the amount of fresh fruits and vegetables offered this year in the National School Lunch Program from last year's total distribution of 8.8 million pounds. And the Department has pilot programs underway to test the use of low-fat mozzarella and cheddar cheese in school lunches.

On another front, the Food Stamp Program provides an excellent opportunity to offer nutrition information and help recipients make food purchases based on sound nutrition. The Food Stamp Program is the nation's primary defense against hunger and the second-largest public assistance program. Today, food stamps help sustain the health and wellbeing of 27 million Americans every month.

While low-income populations are at greater risk of diet-related chronic disease, these communities and groups

often have not been reached with the nutrition message. But in one USDA food program—the WIC program—nutrition has been central from the beginning. In just two decades, the Special Supplemental Program for Women, Infants and Children (WIC) has grown from a pilot project operating in a few counties to a national program serving 6 million lowincome women, infants, and children each month.

WIC has had such success in part because nutrition education has been built into the program. USDA intends to build on the WIC model to make nutrition education an integral part of all 14 food assistance programs.

New Media For the Message

To be fully successful, USDA's nutrition messages must be communicated more effectively. While Americans live in a technologically sophisticated world, USDA continues to disseminate information mainly by paper pamphlet. Therefore, USDA is planning a comprehensive, coordinated national campaign on nutrition education—one that uses more varied media and more creative techniques to produce persuasive and farreaching communications.

- Tapping the talents of audiovisual professionals. Secretary Espy and Assistant Secretary Haas recently met with the president of Walt Disney Studios to discuss ways of reaching young people with nutrition information that is lively and entertaining.
- Working with professional chefs.
 Employees in the school lunchroom and students in the classroom can learn that nutritious food can also look good and taste good.
- Providing video programs in food stamp offices. While food stamp applicants wait in reception rooms to be assisted or interviewed, lively video programs can deliver an effective nutrition message.

- Bringing producers into schools.
 When the country was founded,
 Americans understood their connection to the land. Children knew where their food came from because they had watched it grow. For today's children, food comes from the frozen case at the supermarket or the drive-through window at the fast-food restaurant. It's time to reestablish the continuum from seed to supper.
- Encouraging continued market response to consumers' call for more healthful products. No one has been more creative than the groups representing agricultural commodities in responding to the call for more nutritious foods that are both appetizing and healthful. The meat and dairy industries, for example, have worked to provide and promote lower fat products.
- Forging partnerships with state and local institutions. All who are part of the food system—consumers, farmers, industry, and government have a stake in improving the nutritional well-being of Americans.

USDA's current nutrition agenda is an agenda for change. Rather than a "silver bullet" approach, USDA plans a complete integration of nutrition into its food programs. Just as the "buckle-up" campaign has saved lives on the highways, we need to "buckle up" with a positive image of proper nutrition. The campaign must be comprehensive, consistent, and one that can be sustained over time.

Good nutrition is good preventive medicine. As Federal food assistance policies refocus on their nutritional mission, the gap between the dietary guidelines and their application in food programs will close. The health of our future depends upon the future of our health. [Ellen Haas, Assistant Secretary for Food and Consumer Services, USDA, Under a reorganized USDA, the Assistant Secretary for Food and Consumer Services would become Under Secretary for Food, Nutrition, and Consumer Services.]

Strategies for Nutrition Policy

he two articles that follow examine the dietary guidelines that promote health, and outline some changes in food policies and new approaches to nutrition education that could help all Americans put the advice into practice.

Nutrients & Health: Making the Connection

The link between nutrition and agricultural policy was acknowledged from the moment in 1862 when USDA was established, with a mandate to promote agriculture as well as to provide information on subjects related to agriculture. By the late 1890's, USDA had published tables of food composition, estimates of nutrient requirements of individuals performing various levels of work, and dietary recommendations for disease prevention.

Since that time, USDA has continued to produce materials to educate the public about the nutritional value of foods, the role of specific foods in the diet, and patterns of dietary intake that best promote health. As long as this advice focused on prevention of nutrient deficiencies, and suggested eating *more* foods from various groups, no objections were raised.

The situation changed when dietary advice shifted from "eat more" to "eat less." Back in 1900, tuberculosis, pneumonia, and influenza had been the leading causes of adult deaths, and heart disease and cancer had together accounted for only 12 percent of annual deaths. Advice to eat more made sense.

By the mid-1950's, heart disease and cancer had become the leading causes of death, and researchers were already arguing about whether diet was a causal factor. As research increasingly demonstrated an association between diet and chronic diseases, new dietary advice was needed. But advice to eat less fat, saturated fat, cholesterol, salt, and sugar was controversial right from the start, especially among producers of foods containing these substances.

Despite the arguments, enough evidence was available to justify producing a number of major reports on diet and disease risk in the late 1980's—the "Surgeon General's Report on Nutrition and Health," the National Academy of Sciences' "Diet and Health" study, and the World Health Organization's "Healthy People." By 1992, more than 100 major reports from 36 countries throughout the world had reviewed the research evidence, and had come to the same conclusions:

- Six of the 10 leading causes of death are related to diets too high in calories, fat, saturated fat, cholesterol, salt, or alcohol, and too low in fiber.
- Following dietary recommendations to reduce consumption of these food ingredients will reduce risks of multiple chronic diseases.
- The evidence is sufficient to justify public health campaigns to reduce dietary risks.

USDA's recent policy contributions to this collective effort are the "Dietary Guidelines for Americans" (1990) and the "Food Guide Pyramid" (1992). The "Dietary Guidelines" include seven recommendations:

- eat a variety of foods;
- maintain healthy weight;
- choose a diet low in fat, saturated fat, and cholesterol;
- include plenty of vegetables, fruits, and grain products in the diet;
- use sugars only in moderation;

- use salt and sodium only in moderation; and
- consume alcoholic beverages only in moderation.

But these recommendations are vague and subject to personal interpretation of terms like "healthy," "low," "plenty," and "moderation." To translate the guidelines into actual food choices, USDA produced the Food Guide Pyramid, which specified numbers of daily servings of foods from various groups:

- 6-11 servings from the grain group;
- 3-5 servings from the vegetable group;
- 2-4 servings from the fruit group;
- 2-3 servings each from the meat and dairy groups; and
- low consumption of fats and sweets (no recommended number of servings).

Embedded in both these USDA documents are target levels for upper limits of consumption of certain nutrients: fat at 30 percent of calories or less, saturated fat at 10 percent of calories or less, and cholesterol at 300 mg/day or less. Also embedded is the recommendation to eat more fiber.

Controversy & Consensus

Dietary advice does not automatically translate into dietary practices. One reason is that advice to eat more fruits and vegetables is not very interesting, and may be difficult to follow in societies like ours where more and more meals are eaten outside the home.

Perhaps most important, such advice suggests reducing intake of meat, dairy, and many processed foods that are principal sources of fat, cholesterol, salt, and sugar in the American diet. The history of dietary recommendations suggests that advice to eat less of any of these foods will

almost certainly have political repercus² sions.

Despite international consensus on the validity of the recommendations, they remain highly controversial. For more than 30 years, scientists, food industry representatives, and government officials have been arguing about whether the research basis justifies recommended dietary changes.

Yet this uncertain, sometimes contradictory, and endlessly debated research has led to an international consensus on dietary recommendations. The explanation for this curious situation may be quite simple. Research that focuses on single nutrients such as fat, specific fatty acids, sodium, or vitamins will always be suspect; the studies are too hard to do. People do not eat single nutrients; they eat food. But evidence for the health benefits of diets that, overall, contain a large proportion of calories from fruits, vegetables, and grains, and a much smaller proportion from meat, dairy, processed foods, and alcohol, is not in question and never has been.

That is why the Dietary Guidelines have survived controversy and are in a third edition, and that is why we have the Food Guide Pyramid. Advice about optimal food choices has remained the same through decades of debate over nutritional details.

The scientific basis of dietary advice is no longer really an issue. What is at issue is putting this advice into practice.

Policy Could Make A Difference

USDA has an unparalleled opportunity to integrate its food and dietary guidance policies on food assistance, nutrition monitoring, farm support, and food and nutrition research into a comprehensive program to improve the health of all Americans:

Make more agriculture programs available to fruit and vegetable producers.
USDA programs that support production and marketing of meat, dairy products,

and processed foods could serve as models for new programs to promote fruits and vegetables. Examples of potential programs:

- subsidies for farmers' markets;
- subsidies for coupons to purchasé fruits and vegetables;
- generic marketing programs for fruits and vegetables; and
- price supports to producers and marketers of fresh fruits and vegetables.

Small-scale pilot studies could evaluate the effectiveness of these proposals.

Improve food and nutrition monitoring. National nutrition policies depend on food and nutrient intake data, the basis of all research and education programs related to food and nutrition:

- food supply disappearance (food "consumption" data);
- the nutrient composition of foods (Handbook 8); and
- household and individual dietary intake (NFCS and CSFII).

It is essential that USDA improve the accuracy and reliability of this data, by assigning a high priority to these data bases and providing additional resources to do an effective job.

Increase USDA's nutrition education budget. USDA's education budget is about \$200 million per year, but this amount is divided among seven separate agencies. This situation calls for coordination, particularly since this amount pales in comparison to the \$12-billion advertising budget of the food industry.

USDA could piggyback some of its budget dollars and cooperate to promote the National Cancer Institute's Five-A-Day program. The message of this national campaign—to increase average consumption of fruits and vegetables to five servings a day—is simple, positive, measurable, and easy to evaluate. If USDA could get that message into all its

school, food assistance, and extension programs, this alone could make a big difference.

Existing nutrition programs, such as the Nutrition Education and Training Program (NET), should be strengthened. The NET is an excellent way of educating both students and food-service workers in schools.

In short, USDA policies can do much to improve the nutritional status of its constituents, and the sooner the better. [Marion Nestle, Professor and Chair, Department of Nutrition, Food and Hotel Management, New York University (212) 998-5595]

USDA's Responsibility To Consumers

Health problems that are strongly linked to diet—tooth decay, constipation, obesity, diabetes, coronary heart disease, hypertension, stroke, and several types of cancer—cost the country well over \$100 billion a year. Diet accounts for more deaths each year than anything except cigarettes. Even more remarkable, studies done in the past 20 years have demonstrated that advanced cases of heart disease, hypertension, and diabetes can actually be reversed by appropriate dietary changes.

As the government's lead agency for nutrition education and food programs, USDA has both the opportunity and the obligation to encourage Americans to eat healthful diets. But the typical American diet demonstrates that USDA needs to do a much better job of informing the public about nutrition and encouraging the public to opt for healthful eating.

Nutrition information should be modernized, and provided in new formats such as videos, radio and TV announcements, and even billboards. This information should be geared to a variety of educational levels, ages, dietary patterns, and ethnic and racial backgrounds.

Educating the General Public...

Tell the public what is the best possible diet. The public should know what kind of diet most effectively promotes health and wards off disease. Current recommendations represent a political and cultural compromise, and call for only modest dietary changes. While industries are not offended and consumers do not feel pressured to make substantial changes, this diet would have only modest health benefits. A diet that produces substantially larger health benefits might, for example, call for a fat level of only 20 percent of calories, a cholesterol intake of no more than 100 mg daily, and routine consumption of whole rather than refined grains.

Develop USDA's food triangle theme for a broader audience. The food triangle, which is aimed at children, may be too simplistic for older, more sophisticated people. For instance, fatty ice cream and skim milk are grouped together in the dairy group. Fatty pot roast as well as fat-free lentils occupy the meat-and-protein group.

For a more sophisticated audience. USDA could develop a true pyramid that divides the foods in each food group into categories of "anytime," "sometimes," and "seldom," based on the foods' content of fat, saturated fat, sodium, and other nutrients. Lentils and skim milk would be grouped as "anytime" foods; chicken drumsticks with skin, and 2-percent lowfat milk, would be "sometimes" foods; and pot roast and ice cream would be in the "seldom" category.

Make all USDA-sponsored promotions consistent with sound nutrition advice. Currently, USDA helps the beef, dairy, pork, and egg industries promote their products by means of research and promotion boards. However, some of their promotion campaigns are inconsistent with USDA and FDA's labeling rules for nutrition claims

For instance, the pork industry has asserted that pork has less fat, calories, and cholesterol than the same size piece of chicken. But the industry promotions compare one of the leanest cuts of pork to a medium-fat piece of chicken. The National Dairy Board states that the vitamin A in milk keeps skin smooth, the calcium builds strong bones, and the protein builds muscle. Not mentioned is that whole milk is loaded with saturated fat and cholesterol, which are linked to heart disease.

Watch for deceptive advertising that undermines restrictions on health and nutrition claims in food labeling. Currently, individual companies can make claims in advertising that they are not permitted to make on labels. USDA should urge the Federal Trade Commission to issue regulations on food advertising that are fully consistent with FDA and USDA's labeling rules regarding health and nutrition claims.

... as Well as Schoolchildren ...

USDA's food and feeding programs provide a direct means of improving diets. The National School Lunch Program, which feeds some 25 million children daily, could be teaching good eating habits that will last a lifetime. USDA surveys, however, indicate that school lunches are far too high in fat and sodium. The average meal gets 38 percent of its calories from fat—compared with the recommended 30 percent-and half again more than the recommended level of saturated fat. Meals have twice the recommended amount of sodium. In other words, schools actually provide diets that are bad for children's health.

USDA should set better standards for school lunches. Quantitative standards should determine the fat, saturated fat, cholesterol, fiber and sodium, and sugar content of school lunches and breakfasts. Those standards should be based on USDA's "Dietary Guidelines for Americans" and other authoritative recommendations issued by government and the National Academy of Sciences.

Regulate the sale and service of competitive foods. To help schools serve more nutritious meals, USDA should require

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vendors to provide nutrition information on all products sold to schools. The Department should also require that all food sold in school snack bars, vending machines, and other means meet standards for fat, saturated fat, and other nutrients—the same standards as for school lunches.

Supply commodities of higher nutritional quality. Ironically, some federally subsidized food commodities are an impediment to offering wholesome school lunches. In 1992, \$675 million in subsidized commodities was donated to school lunch and breakfast programs. Those commodities—in the form of processed cheese, frozen or canned meats, canned fruits and vegetables, oils, butter, flour, and other staples—represent one fifth of each school meal.

Many of those commodities are high in fat. Among the vegetable commodities, a bite-sized fatty potato product tops donations. That product gets 42 percent of its calories from fat, compared with a baked potato, with less than 1 percent calories from fat. USDA has compounded the problem by recommending they be served "with melted cheese or gravy." USDA should revise its food-purchasing practices to provide schools with a more healthful commodity mix.

... & Food Stamp Recipients

USDA also has an opportunity to educate the 27 million Americans who participate in the Food Stamp Program. Unfortunately, it's largely a missed opportunity, with only one-seventieth of 1 percent (0.015 percent) of the food stamp budget going toward nutrition education.

Funding for a major educational campaign aimed at food stamp recipients could come from the money that food retailers and USDA will save as the EBT, or Electronic Benefits Transfer system, is phased in over the next few years. EBT is expected to save retailers about \$135 million and USDA about \$27 million each year. Investing half of those savings in a comprehensive educational program—using the mass media and other social-marketing approaches—could help low-income Americans make the best use of their food-stamp dollars. The funding mechanism for this program would call on retailers to designate one-third of 1 percent of their food-stamp sales to the educational fund.

Assessing the Results

The public expects USDA to use its tremendous resources to improve the diet and health of schoolchildren, food stamp recipients, and all Americans. USDA's performance should be evaluated on the basis of the effectiveness and visibility of its educational programs, changes in the commodities program, and improvements in school meals over the coming years.

[Michael Jacobson, Executive Director, Center for Science in the Public Interest (202) 332-9110] AQ

Upcoming Reports from USDA's Economic Research Service

The following reports or summaries will be issued at 3 p.m. Eastern time on the January release dates indicated.

January

- 13 Cotton & Wool Update Hog Outlook
- 14 Feed Update
- 21 Oil Crops*
 - Livestock, Dairy & Poultry
- 24 U.S. Agricultural Trade Update
- Release of summary



An Ecosystem Approach To Resource Management

SDA is preparing to enter the next century with a new natural resource management pattern, or paradigm, in place. The new approach, called ecosystem management, will blend the practical expertise of farmers and foresters with the scientific principles of ecology.

Ecosystems—biological communities and their interactions with the environment—can be as small as a single woodlot or an Iowa cornfield, and as large as the Pacific Northwest forest or the Mississippi River watershed. The new approach emphasizes maintaining and improving ecosystems—and providing sustainable levels of goods and resources.

Under ecosystem management, decisions about resources may be made after considering impacts on the larger ecosystem containing the individual farm, ranch, or woodlot. The reason is that the implications or consequences of many activities, such as logging old-growth forests, or farming on floodplains, become more ap-

parent at a broader landscape perspective and when followed through time. Partnerships and teams of individual landowners and resource managers are encouraged.

The two USDA agencies responsible for natural resource management and conservation—the Forest Service and the Soil Conservation Service (SCS)—are in transition to ecosystem management. The Forest Service adopted an ecosystem management philosophy in June 1992, and is addressing questions such as what defines sustainability. The Soil Conservation Service has been moving toward this more holistic approach for about 3 years.

The "Butternut Coalition," a regional partnership of government agencies, universities, and the National Association of State Foresters, illustrates the effectiveness of using the team approach and the broader landscape perspective in solving difficult resource problems. The coalition organized in response to a serious disease outbreak affecting butternut trees across the South and Northeast, with the objective of keeping the butternut tree on the landscape. Through their sharing of genetic material, cooperation on applied research, and development of special management practices, the coalition has largely met its objective.

Features of the Ecosystem Approach

The transition to ecosystem management is expected to be a gradual shift over time in USDA's management practices. Ecosystem management is being adopted because it provides a framework for making ecologically responsible, economically viable, and socially acceptable resource management decisions. While these attributes are not new in USDA decision making, what is new is the integration of these attributes in framing management choices.

Ecologically responsible management is sustainable over time, and maintains the structure, function, and processes of the natural environment. Under the new management approach, the expertise from 100 years of past management of

forest resources will be blended with recent information and principles developed under the ecological sciences.

USDA's past management has focused primarily on extracting goods and services from the National Forests and Grasslands. While society will continue to need and expect to have goods and services from the land, USDA will increase its emphasis on maintaining or improving the condition of the land as the context for providing sustainable levels of goods and services. In providing goods and services, the volume and timing must be considered within the capacity and suitability of the land.

More attention will be placed on understanding the ecology of national forest lands and other resources. Scientifically credible information about forest ecology will be more effectively applied in making management decisions. The interrelation among the components of the environment, including humans, has not been focused on sufficiently up to now. Better knowledge of the interrelationships—not just of the individual components-will allow USDA to manage the land more efficiently and effectively and redeem its stewardship responsibilities. Increasing emphasis will be placed on adapting management practices over time, as the effects of activities are monitored.

Multiscale analyses will aid decision making and monitoring. USDA will increase its effectiveness as it improves understanding of the capacity of the land and monitors the effects of management at varying scales (over both time and area). This approach is in contrast with the traditional approach, which emphasizes site-specific analysis.

Ecosystem management offers a way to view ideas, management, and agricultural activities in context—spatially and over time. Individual sites such as farms, woodlots, or ranches, or a tract on the National Forest, are part of watersheds, which form landscapes that may be aggregated to higher and higher scales to encompass the planet. The recognition of how each component nests within larger components is the foundation of the ecological approach to management.

A land manager or landowner faces many challenges that he or she simply cannot solve individually, or in some cases even recognize. Taking an ecological approach across the landscape promotes better understanding of the situation while allowing individual landowners to be most effective in achieving their objectives.

The Sequence Of Success

Ecosystem management is an approach that can be useful to individual land-owners as well as Federal or other public land managers. For either a public land manager or an individual landowner, the sequence of ecosystem management steps would be similar:

- Identify and understand resource conditions and trends. Is the land suitable and capable to provide goods and services in a sustainable way, based upon the interrelationships among people and the other components of the environment?
- Consider resource conditions on the surrounding landscape. For example, what is happening at the higher scale that will influence the condition and trends on the specific tract of land?
- Determine desired conditions within the context of the land's capacity and suitability, including conditions of the land over time as well as the goods and services to be derived.
 For public land managers, these desired conditions would be identified by ongoing open public dialogue.
- Identify the actions necessary to achieve and sustain the desired conditions.
- Monitor the effects of management activities and adjust actions as appropriate.

Among the many programs of the Forest Service, none is better suited for delivering ecosystem management assistance to private nonindustrial forest landowners

Ecosystem Management: The Greenville Model

The ecosystem approach taken by the Greenville community in northern California's Plumas County illustrates how environmental issues will be increasingly addressed in 1994 and beyond. The approach is based on ecosystem management principles, involves all concerned parties in the decision-making process, provides incentives, and focuses on sustainability for current and future use.

Greenville began a major effort to solve a host of resource problems when the Pacific Gas and Electric Company estimated it would have to spend \$64 million in dredging fees, or close its Rock Creek Dam hydroelectric powerhouse which was up to its intakes in sediment.

In addition, a lower water table and other land use changes were causing Wolf and Red Clover Creeks to undercut their banks and flood, threatening businesses, homes, and some surrounding farmland. The Feather River trout population had dropped drastically in the wake of mining, sediment, dams, and trash deposits. Endangered species protection and other factors had reduced timber harvests. The Greenville community also had another major concern—a 26-percent unemployment rate.

In 1987, 13 agencies and organizations, including USDA's Forest Service and Soil Conservation Service (SCS), signed an agreement to create a broad erosion control mission to halt some of the problems at the source. Coordinated Resource Management (CRM), a consensus-building process involving all concerned parties, was chosen as their problem-solving approach. Under this method, no action is taken until everyone agrees. The community agreed that its natural resources were its economic capital: if the community could not keep them

healthy, as an ecosystem, its own economic returns would be reduced.

The community partnership decided on the problems and objectives to be addressed, raised \$2.5 million, and conducted 33 projects and studies. Cumulative effects, rather than single polluter problems, were the focus of the studies, and topics included stream bank erosion control, water table enhancement, fish habitat restoration, and economic development. Students from two local high schools monitored resource improvements, gaining experience and training in resource conservation work.

Individual ranchers worked to stabilize stream banks on their property by restoring riparian (water-related) vegetation, with assistance from SCS and Federal cost-share funds. The stream bank stabilization by a single rancher reduced the stream's sediment load by 1,000 tons a year, reducing dredging costs by approximately \$6,000.

At the watershed level, Wolf Creek no longer threatens Greenville's homes and businesses, jobs are being created, and lifestyles, cultural values, and economic needs are being addressed. At the individual level, better pasture use and fishing are available to the land user. Also, the trout and bird populations, including the endangered bank swallows, have increased.

An ecosystem-based approach is not easy, since it requires a more comprehensive way of looking at the world and requires that more people work together in addressing resource issues. But it is a more effective approach for ensuring a productive nation in harmony with a quality environment.

than the Forest Stewardship Program and the Stewardship Incentive Program. Each is intended to provide professional assistance to landowners on a voluntary basis to meet their own objectives in an environmentally sensitive and economically beneficial way. Authorized by the 1990 Farm Act, the programs to date have provided more than \$21 million in assistance to 25,000 landowners.

State Stewardship Committees are operating in every state and can provide an outstanding forum for discussing ecosystem management applications to meet local needs and objectives. A few of the state committees have formally adopted ecosystem management concepts. The reason these programs are well positioned for ecosystem management is that they

are based upon voluntary partnerships, a comerstone of USDA's state and private forestry activities.

The Soil Conservation Service is also updating its programs to provide ecosystem-based assistance to individuals and communities on a voluntary basis. Technical and financial assistance will continue to use and build upon the SCS planning process and Field Office Technical Guide, which addresses the interactions among resources. Ecosystem-based assistance provides an interdisciplinary approach to many resource goals, such as soil conservation and water quality improvement. This approach will help avoid conflicts that occasionally occur

when individual solutions are developed to address complex resource problems and legal requirements.

Widespread adoption of the ecosystem management approach with its more prudent management activities will bring more cost-effective methods for achieving conservation objectives. And a more harmonious co-existence with the natural environment will evolve as USDA integrates environmental, social, and economic objectives, and brings science into a stronger partnership with management. [Joan M. Comanor, Director, Land Management Planning and Ecosystem Management, Forest Service, USDA (202) 205-1697; Diane Gelburd. Associate Deputy Chief, Soil Conservation Service. USDA (202) 720-3587] AO

Ag Pollution: A New Generation Of Rules?

he agricultural community today is deeply concerned about the quality of water that nourishes its crops and livestock and sustains its farm families. Recent government reports on the magnitude of agricultural nonpoint-source pollution—soil erosion and runoff of chemicals and sediment from cropland—have heightened this concern.

The farm community is also apprehensive about an impending proliferation of rules and regulations that will come with reauthorization of the Clean Water Act. Behind these twin concerns are two principal reasons.

First, the Coastal Zone Management Act—the first Federal program to require specific measures to address agricultural nonpoint-source pollution—is already law. The Coastal and Great Lakes states are struggling as they attempt to meet these requirements in developing nonpoint-source programs. Second, the Congressional committees that will be developing the Clean Water Act for reauthorization are not agricultural committees with a background in understanding farm issues.

Society has legitimate concerns about surface- and groundwater pollution from agricultural operations. The question is, what is the best approach to limiting agricultural pollution? Some have characterized the options as either regulatory or voluntary approaches. The reality will probably be a combination.

Voluntary Compliance Gets a Chance

Agricultural producers will likely have a small window of opportunity to install pollution abatement practices voluntarily on their farms and ranches-across the

country. However, some regulatory process will probably **be** put in place, to be triggered if the voluntary **effort** fails.

The entire agricultural community—farmers, ranchers, farm organizations, farm press, input industries, and resource organizations, as well as USDA—has a stake in working together to make the voluntary approach a success. Partnership is a keystone of ecosystem management (system-wide conservation planning), and can demonstrate that the agricultural community can respond and improve water quality.

One likely feature of the reauthorized Clean Water Act would require states to develop a priority list of impaired or threatened waters. States would have options for curbing nonpoint-source pollution in the waters on the priority list.

- The first option would involve installing specific pollution abatement and prevention practices for all nonpoint sources in priority watersheds.
 A crash effort would be needed to install the practices within the time period allotted for voluntary action.
- The second option involves a more systematic, targeted approach referred to as the "watershed approach." Watersheds are the land areas that drain into a stream, lake, or estuary. Under this approach, a plan of action to control pollution would evolve gradually for priority watersheds, and involve community participation.

Watershed Approach Is Most Promising

Watersheds usually encompass multiple land uses, soils, geology, and biota, and receive both point and nonpoint-source pollution. The watershed approach to controlling agricultural pollution is an example of ecosystem management, which coordinates the conservation of water, air, plants, and animals, as well as their interactions.

The watershed approach holds the most promise for agriculture, soliciting local input in developing corrective actions. Farmers, ranchers, and rural communities would be encouraged to participate in the planning process. And their participation would help them understand the water quality concerns, sources of water pollution, and the corrective actions needed.

Some of the key features in implementing the watershed approach are described below.

Priority watersheds would be ranked for action-plan development. States would have significant control over the watershed planning schedule, and would likely use a sequential process to develop action plans for watersheds on the priority list. Plans for the highest priority watersheds would be developed before proceeding to the remaining watersheds on the list.

Watersheds occur on the landscape in a nested arrangement, with large watersheds containing smaller ones. In developing conservation plans, a state water quality agency might select a large watershed as a priority area of concern. After scoping the sources of pollution and the water quality conditions, smaller watersheds within the large one might then be selected for a concentrated effort in developing an action plan.

The smaller the watershed, the easier it is for local people to get involved in the planning process. Conservation planners for the Chesapeake Bay, for example, found that farmers in upstate Pennsylvania and other distant areas had difficulty linking their actions on the farm to the impact on the bay. The planners are now concentrating on smaller watersheds within the large Chesapeake Bay watershed area. Farmers are helping to improve the quality of their nearby streams, delivering cleaner water to the bay.

USDA outreach would focus on expanding local involvement in defining and solving pollution problems. Once the smaller watersheds are selected, USDA would use an aggressive outreach program to solicit the involvement of everyone in the watersheds. Local residents will want to know what the water quality

problem is, and the source of the pollution. They will also want to know the potential solutions.

Solving water quality problems will generally require understanding the entire watershed ecosystem, and few problems can be solved by reducing just one pollution source. An understanding of the interactions between human activity and natural resources will also be required. As the local residents better understand the ecosystem, they will begin to realize how to solve the water quality problems. Farmers and others will then be willing to make changes in their day-to-day practices to improve water quality.

In one USDA water quality project, the stream near a farming community was deteriorating because of sediment deposits from soil erosion and sediment runoff. Public awareness of the problem was low until USDA arranged cance trips for farmers to survey the polluted stream. After seeing the soft mud bottoms in the stream's pools, and the reduction in aquatic life in areas of sediment deposition, farmers were convinced that sediment reduction was necessary.

As a result of those canoe trips, farmers have made major progress in implementing USDA's recommended sediment reduction practices. In addition, the farmers are now developing their own ideas for reducing sediment, such as reestablishing trees in stream corridors.

Site-specific plans would emerge from analysis of larger ecosystems. Site-specific farm and ranch plans would be needed to help fit all the pieces together. The complexity of the interactions between the inputs, resources, crops grown, and farm/ranch management rules out "cookie cutter" plans. Solutions have to be tailored to the individual farm and ranch operation.

Water quality monitoring would measure progress. As USDA's limited resources are targeted on water quality, monitoring will be needed to measure progress in reaching water quality goais. By keeping records of when pollution-reducing practices are installed on the land, and comparing installation progress with water quality data, USDA can partially meas-

ure ecosystem response. Monitoring also gives local people the data to demonstrate to the water quality agency that installation progress is occurring.

Complete reliance on water quality monitoring may yield misleading conclusions. however, because of the time lag for some surface- and groundwater systems to respond to pollution-reducing practices. For example, in a USDA water project with a goal of reducing phosphorus, pollution-abatement measures were installed but water quality did not significantly improve. Additional tests revealed that soils near the streams had been receiving high levels of phosphorus from animal manure for decades and were saturated. It will take 20 to 30 years to fully use the excess phosphorus and reach the desired water quality goals.

Upcoming Reports from USDA's Economic Research Service

The following reports or summaries will be issued at 3 p.m. Eastern time on the Febuary release dates indicated.

February

- 11 Cattle & Sheep Outlook
- 14 Feed Update Oil Crops Update
- 15 Agricultural Income & Finance*
- 18 Agricultural Outlook*
 U.S. Agricultural Trade
 Update
- 22 Wheat*
 Livestock, Dairy & Poultry
- 23 Poultry Outlook
 Dairy Outlook
- 24 Cotton & Wool*
- 25 Agricultural Exports*

* Release of summary

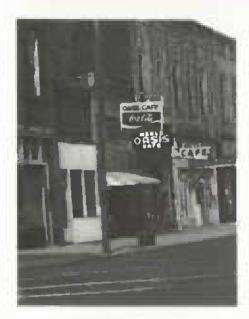
Therefore, documentation of pollutionreducing practices should be coordinated with water quality monitoring. This will help USDA project managers and local people understand ecosystem response and the need for possible adjustments in the pollution abatement measures, and in interpreting the monitoring results.

Watershed Approach As a Framework

The watershed approach to controlling agricultural water pollution provides a framework for coordinating system-wide conservation planning for other types of pollution problems. Using ecosystem-based planning, the watershed approach can provide crosswalks between the various environmental laws affecting agriculture. Conservation goals specified in the Food, Agriculture, Conservation and Trade Act, for example, could be connected with those contained in the Clean Water Act.

The watershed approach can be a success if everyone gets involved in the conservation planning process. The agricultural press can help announce opportunities for farmers and ranchers to become involved. Agricultural organizations can encourage their members to become involved, and provide information for improving operations. The farm input industry can produce special equipment for pest control to help improve water quality.

Finally, USDA must build stronger partnerships with farmers and ranchers, state and Federal agencies, and others involved in resource planning, so that conservation goals can be established and accomplished more effectively as a team. [John Burt, Associate Deputy Chief, Soil Conservation Service, USDA (202) 690-2500]



The Diversity Of Rural America

ohn Kennedy's agricultural adviser argued that American agriculture is too complex to represent with statistics on the "average farmer." Rural America, similarly, is complex. What is accurate for the Delta of Mississippi and Arkansas may have little similarity to the Central Valley of California or to the mountains of North Carolina.

Each of us carries around one or two images of "average rural America," often based on limited experience. The diversity of America is its great strength, but the limited knowledge most people have of rural America's diversity makes it difficult to talk about its future directions and formulate appropriate rural policy.

But a number of statements can be made about rural America in the aggregate.

The U.S. is now dominated and defined by its suburban communities, rather than by its rural edge. In 1990, for the first time in the country's history, over 50 percent of the population lived in metropolitan areas containing over a million people. And most of the growth that has oc-

curred since 1950 in these urban areas has been in the suburban ring—not the inner city.

- Rural America's population is still declining. As a percent of the country's total population, rural population has been declining almost since the founding of the Republic. In 1920, urban population exceeded rural population for the first time. By 1990, only 25 percent of the nation's population lived in rural areas.
- Approximately 84 percent of the contiguous land mass of the U.S. is rural, according to definitions developed by the Office of Management and Budget. Nationally, approximately 2,300 counties are rural.
- Agriculture no longer dominates rural America. In 1890, 24.8 million Americans (42.3 percent of the total population) lived on farms. By 1990, only 3.9 million (1.5 percent) lived on farms. Agriculture is no longer the major source of employment in rural America, and it is no longer the major source of income for the majority of farmers.
- Rural Americans are more likely to be poor than their urban relatives, and the gap is growing. Fifty-one percent of rural residents fall into the two poorest quintiles, compared with 37 percent of those in metropolitan areas. In 1987, per capita rural income was only 73 percent of urban per capita income, down from 77 percent in 1979. Thirty-six percent of all rural children live near or below the poverty level, compared with 29 percent in urban areas.

Four Views Of Rural America

Rural America can be seen as containing four kinds of counties, depending on their concentration of natural resources and agriculture, manufacturing, poverty, and population. While some counties may fall into more than one category, and other categorization schemes could be used, these four views are useful

frameworks for examining the various opportunities and needs of rural communities.

Natural resource- and ag-focused areas include the approximately 500 agriculture-dependent counties that are located mainly in the Great Plains (with smaller concentrations in the lower Mississippi Delta and parts of the intermountain West), and the 105 mining-dependent counties that are concentrated primarily in the middle Appalachian region. The rest are spread throughout the country with clusters in the West. This category also includes a number of timber- and recreation-dependent counties.

The outlook for these counties is mixed. Natural resource-dependent communities that are near urban areas have substantial opportunities to increase tourism and specialized value-added food and wood processing. At the same time, these areas are likely to experience the greatest conflict over differing environmental values. Suburban people, who are now the majority in the U.S., are likely to be highly suspicious of assurances by farmers, forest products companies, and others that have traditionally controlled much of rural development in these areas.

While demands for more environmental regulation continue, these rural areas will continue to be exposed to many issues reaching well beyond the farmstead and the woodlot. Tax policy, trade policy, and monetary policy will have much to say about the economic viability of natural-resource-dependent areas in the next year and the next decade.

Manufacturing-focused areas cover the largest part of rural America. About 945 counties (approximately 40 percent of rural America) fall into this category. These counties are located largely in the eastern two-thirds of the country, with a small concentration in the Northwest.

This part of rural America includes a mixture of businesses that are based on cheap labor and those based on some other competitive advantage. Rural communities that depend on low labor costs are not likely to fare well in the increasingly competitive global market. Rural manufacturing areas must compete based

on quality and other competitive advantages, not tax giveaways and poor-quality jobs. As with the natural-resourcedependent areas, tax policy, trade policy, and monetary policy will have a substantial impact on the economic viability of rural manufacturing areas.

Persistent poverty areas include about 500 counties clustered in the deep South, the southern two-thirds of Appalachia, parts of the Ozarks, and in the western areas with significant numbers of Native Americans or Hispanics. In many of these areas, farming is not currently a major source of personal income, and these areas are less affected by shifts in the international marketplace.

Past economic development efforts here have been largely unsuccessful. If these, areas are to experience increased economic opportunity, it will require increased, highly strategic efforts involving all levels of government. Without such targeted investments, these areas are likely to continue be pulled down by persistent poverty and lack of opportunity.

Low-density areas exist almost entirely between the 100th Meridian and the eastern slope of the Pacific coastal mountain range. This is the area that Rutgers University researchers have called the "Buffalo Commons." Forming the heart of this low-density region are the 396 counties of the Great Plains. In this area, people have been moving from rural counties to urban areas for almost every decade since 1930.

This region, highly dependent on agriculture and energy, has the potential to slide into long-term economic difficulty. Simply relying on the marketplace is not likely to help this region of the country during the next year or 5 years. New government initiatives will be required to ensure the economic viability of much of this part of rural America. The further an isolated county is from an urban concentration, the more fragile its economic future.

Outlook for 1994

Some portions of rural America will likely experience traumatic change during 1994, similar to the trauma in the upper Midwest with the floods of 1993 and in portions of the Northwest facing timber issues. It is difficult to estimate the size and location of these areas, but possible candidates include:

- tourist areas dependent on uncertain energy prices;
- irrigated portions of the Central Valley of California if fires and water conflicts continue; and
- the Upper Midwest again, given likely production problems due to high levels of soil moisture at the end of the 1993 growing season.

The diversity of rural America represents a major challenge to the Federal government and to USDA in particular in 1994. The natural-resource-dependent parts of rural America will experience continuing pressure over environmental concerns. In general, however, these regions are well positioned to compete in an increasingly competitive world, especially if there is a "level playing field." The parts of rural America with the most scenic natural resources and special recreational and retirement amenities are likely to experience substantial growth and conflict.

Manufacturing-dependent areas include highly competitive individual firms but also some that are not likely to prosper. Government investment, tax, and capital policies can do much to help these parts of rural America.

Two sectors of rural America need special attention and assistance from the Federal government and USDA; the persistent poverty regions and the lowest density regions. The approaches to these special needs should be cooperative and tailored to the local situation and to market opportunities. Finally, some parts of rural America will experience dramatic human-made or natural structural shifts. The Department needs to be ready to assist these areas.

All of this is occurring in a national political environment that will be increasingly dominated by suburban voters and their representatives. The Department and rural leaders will need to create new alliances to address the specific problems of rural America.

[Karl N. Stauber, Vice President of Programs, Northwest Area Foundation; recently appointed to a senior position in rural development within USDA] AO

Health Care Reform & Rural Communities

he Clinton Administrations's proposal for health care reform, designed to secure and provide better health care for all Americans, will benefit farmers and rural communities—both in the universal provisions and in specific provisions to help rural communities and other underserved areas.

Rural communities have proportionately more uninsured and underinsured residents than their urban counterparts. Currently, 8 million rural Americans (18 percent of the total) have no health insurance at all, including 18 percent of all farm families. Few have the protection of membership in a large business or purchasing group that can successfully negotiate lower premiums. Rural communities also lack health care providers, due partly to the isolation and the poor insurance coverage in many rural areas.

Under the universal provisions of the health care reform plan—the Health Security Act—every American citizen and legal resident would have health insurance coverage that could never be lost, even by someone who loses a job, switches jobs, or starts a small business. Risk would be spread over larger pools of people through regional purchasing alliances. The alliances are purchasing cooperatives that give consumers, especially those in rural areas, more leverage

to negotiate reasonable prices for health care plans.

The Health Security Act would also broaden and guarantee access to services for all Americans. For rural and underserved communities, the plan includes grants, tax credits, and financial incentives to increase the number of primary care physicians, nurse practitioners, and physician assistants locating there.

For farmers and other self-employed Americans, the plan provides a low-cost mechanism to insure their employees as well as their families. It would also increase their tax deductions for health care from 25 to 100 percent of costs.

Small businesses are the leading incubators of new jobs in the U.S., and their treatment under reform is of special concern in rural communities. The Administration plan would cap employer contributions to health care costs at a percent of payroll, as a way of helping them meet their responsibility without putting themateconomic risk.

The Mechanics Of Reform

The ranks of the uninsured are growing, and the majority are workers and their families who can't afford the insurance that is being offered. In addition, much of the insurance available to individuals and small groups has no coverage for catastrophic care and preventive services. And insurance plans are increasingly offering less and less choice about health care.

Under the Administration plan, every American citizen and legal resident would have a health security card. Exclusions for pre-existing conditions would be outlawed, and there would be open enrollment. Health plans would have to accept all applicants, with guaranteed renewal.

The reform plan is based on four major principles.

- Security is provided by requiring that health insurance coverage could never be lost, even if someone loses a job, switches jobs, or starts a small business.
- Cost savings are emphasized so that this expanded coverage is affordable over time, with the assurance of the same quality of care.
- Choice would be ensured because it is preferred by many Americans and it helps keep costs down through competition. People may choose to join a physician network, a health management organization (HMO), or a traditional fee-for-service arrangement, although the latter may involve a higher cost. In rural areas that lack a managed care plan, residents would still be guaranteed fee-for-service coverage. In addition, the plan provides incentives to develop managed care plans in areas that don't have them.
- Responsibility is built in by having everyone contribute to the system.
 Health care would not be free.

The plan would create large purchasing pools, called alliances, which all Americans would belong to whether they are employed or unemployed, rural or urban. States would establish alliances and geographic boundaries in accordance with national standards of quality, access, and cost control. These alliances are designed to give consumers and small businesses the power to buy affordable care.

The alliances would enroll all eligible residents, collect premiums, and pay the chosen health insurer. They also may administer subsidies for people who are unemployed or who earn low wages. Small businesses that have a high percentage of low-income employees would be eligible for premium discounts that make coverage of their employees more affordable.

Alliances would not cross state lines, but health care plans could. This is an important consideration for sparsely-populated states, such as North Dakota and South Dakota, where markets may be across the state line.

The role of the Federal government would be to set the basic framework and guarantee the benefit package, while states would be responsible for implementing and monitoring specific provisions of the health reform plan. States would certify that insurance plans meet Federal criteria and any additional criteria the states wish to impose. States would also be responsible for monitoring quality and access to care, and for implementing the insurance and malpractice reform outlined in the Administration proposal.

Operating within the Federal framework, states could adopt health reform arrangements of choice, including single payer, managed competition, and others—as long as they meet Federal standards for universal coverage and access, comprehensive benefits, quality of service, and cost containment. Alliances would serve as the collective purchasing agent for employers and consumers. Rather than many insurance agents marketing health plans to individuals, the alliances would solicit bids from the plans.

More of the health insurance premium would be channeled into preventive care. Mammograms, pap smears, immunizations, prenatal care, and other preventive services are covered under the proposal, and would not be subject to any co-pay, co-insurance, or deductibles.

Other features include expanded home care benefits, outpatient rehabilitation benefits, hospice care, and a new prescription drug benefit in the medicare program. Also, the proposal would exclude lifetime cost or time limits on care. Currently, in many cases of serious illness, lifetime limits are reached and insurance terminates.

Provisions Targeting Rural Communities

The plan includes a number of provisions designed specifically to meet the needs of rural communities and other underserved areas.

- The National Health Service Corps would be greatly expanded by the year 2000—approximately 3,000 additional practitioners would be serving rural America.
- A flexible grant program would be created to develop rural networks, especially in hard-to-reach areas.
 Funds would help to establish health care practices, telecommunications linkages, and insurance networks.
- Tax credits would be offered for primary care providers serving rural and urban underserved areas—up to \$1,000 per month for physicians (\$500 for nonphysician primary care providers) for up to 5 years.
- Physicians who provide primary care services in underserved rural areas, with either new or established practices, would have an expanded allowable expense depreciation for equipment—up to \$17,500.
- The bonus medicare pays to physicians who serve in rural and underserved areas would increase from 10 percent to 20 percent.
- Telecommunications in rural and underserved areas would be supported through the expansion program.
- Alliances would be permitted to offer incentives to health care plans to encourage them to provide coverage to rural areas, and the plan mandates that those areas be covered. The proposal would set standards for reasonable time and access to services, and supplemental grants to providers in underserved communities to assist in transportation and other services that enable people to obtain care.

- Community and Migrant Health Centers and rural health clinics would be designated essential providers. The proposal specifies that health plans must contract with "essentials" for services provided under the benefit package for a 5-year transition period.
- The Indian Health Service is extended, and its benefits package would be broadened. Native Americans would also be covered by their regional alliance—giving them a choice for the first time.

For all small businesses, the employer contributions to health care costs would be capped as a percent of payroll. For those with less than 75 employees, the cap would be on a sliding scale tied to number of employees and average wage in the firm. For example, a firm with under 25 employees, and an average annual wage of \$10,000, would have a 3.5-percent cap and would pay \$350 per employee at most each year.

State Efforts Also Critical

While the shape of health care reform is still being debated, there is now a consensus on the need for change. The issue of how to reach the same goal of quality, affordable health care for all Americans is being argued in Congress as well as at the state level.

States are already moving rapidly to develop their own health initiatives. Hawaii, Washington, and Minnesota have already made progress in developing their own versions of reform, and California, Iowa, Florida, Vermont, and other states are working on new systems.

States will play a critical role in implementing health care reform. Rural leaders must become active at the Federal and state levels if reform is to work for rural America. Meaningful reform of the health care system will take commitment and vision—a vision of America in which no matter where people live—the large cities in the East, the farm communities in the Midwest, or the mountain towns in the West—they will get the health care they need.

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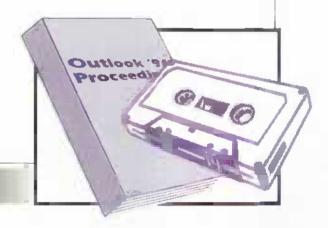
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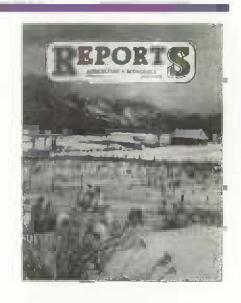
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NOTE: Each issue of Agricultural Outlook contains highlights of the situation and outlook for the following commodities—

- Livestock cattle, hogs, broilers, eggs, turkeys, dairy
- Crops: wheat, rice, feed grains, oilseeds, cotton, tobacco, sugar, vegetables, fruit

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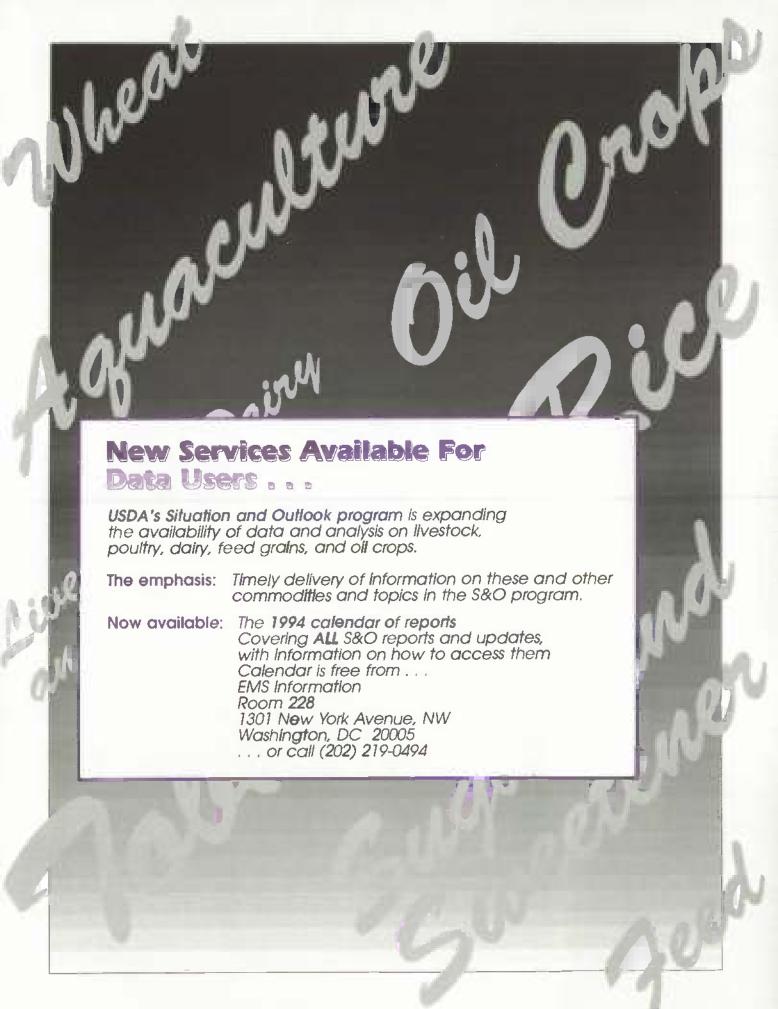
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"Toward a New Era of Pesticide Regulation." 12/32 "U.S. Conservation Policy—What's Ahead?" 11/36



Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

	1992			1993				1994	
	Annual	I	П	H	1V F	Annual F	I.F.	II F	Annual F
Prices received by farmers (1977=100) Livestock & products Crops	140 157 121	139 159 117	146 167 126	140 161 118	145 159 130	142 162 122		Ξ	
Prices paid by farmers. (1977=100) Production items Commodities & services, Interest. taxes, & wages	174 191	17 6 194	179 197	178 197	181 199	179 197	=	=	=
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crope (\$ bil.)	172 86 85	163 87 76	185 89 96	_	=	=	=	=	=
Market basket (1982–84–100) Retail cost Farm value Spread Farm value/retail cost (%)	138 103 157 28	141 105 160 28	142 107 160 27	=	=	=	E	=	=
Retail prices (1982–84=100) Food At home Away from home	138 137 141	140 1 39 142	141 140 1 43	141 140 144	141 140 144	141 140 143			
Agricultural exports (\$ bil.) 2/ Agricultural imports (\$ bil.) 2/	42,4 24.3	11.4 6.4	10.1 6.3	9.2 5.7	11. 5 6.3	42.6 24.5	11.5 6,2	10.1 6.0	42.5 24.5
Commercial production Red meat (mil. lb.) Pouttry (mil. lb.) Eggs (mil. doz.) Milk (bil. lb.)	40,795 26,398 5,883 151.7	9;716 6;542 1,458 37.8	9,993 6,987 1,471 39 6	10,360 7,032 1,487 37.5	10.523 6,970 1,635 37.0	40,592 27,531 5,951 151.9	9.952 6,880 1,485 37.9	10,172 7,315 1,490 39.8	41,378 28,840 6,015 153.3
Consumption, per capita Red meat and poultry (lb.)	208.4	50.4	51.1	52.3	54.2	208.0	51.3	52.4	212.2
Corn beginning stocks (mil. bu.) 3/ Corn use (mil. bu.) 3/	7,916.1	1,100.3 2,674.1	7,906.4 2, 229.2	5,678.2 1.970.9	3,709.4 1,599.5	B,473.6	2,112.7	_	7.750.0
Prices 4/ Choice steers—Neb. Direct (\$/cwt) Barrows & gilts—IA, So. MN (\$/cwt) Broilers—12-city (cts./lb.) Egge—NY gr. A large (cts./doz.) Milk—all at plant (\$/cwt)	75.36 43.03 52.6 65.4 13.09	80.65 44.92 53.1 75.6 12.33	79.78 47.59 55.8 73.4 12.90	73.77 48.05 56.9 69.6 12.67	71-72 44-45 54-55 70-71 13.15- 13.35	76-77 46-47 55-56 72-73 12.75- 12.85	70-78 43-49 50-56 66-72 11.50-	72-78 46-52 50-56 62-68 10.90- 11.90	71-77 44-50 50-56 66-72 11 45- 12.45
Wheat—KC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot 41-34 (cts./fb.)	3.91 2.41 5.68 53.9	3,82 2 18 5,83 55, 2	3.48 2.27 5.95 55 7	3,36 2,38 6,66 53,8	-	-			
	1985	1985	1987	1988	1989	1990	1991	1992	1993 F
Farm real estate values 5/ Nominal (\$ per acre) Real (1982 \$)	713 657	540 568	599 518	632 530	661 533	668 517	681 505	684 487	700 486

^{1/} Quarterty data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept. fiscal years ending with year indicated. 3/ Sept.-Nov. first quarter, Dec.-Feb. second quarter; Mar.-May third quarter; Jun.-Aug. fourth quarter; Sept.-Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages, Jan.-Dec. 5/ 1990-93 values as of January 1. 1988-89 values as of February 1. 1985 values as of April 1. F = forecast, -- = not available.

U.S. & Foreign Economic Data

Table 2.—U.S. Gross Domestic Product & Related Data

		Annual		1	992		1993	
	1990	1991	1992	011	IV		il	III
			\$ billion (qua	rterly dáta sea	sonally adjust	ed at annual r	ates)	
Gross domestic product Gross national product Personal consumption	5,546.1 5. 567.8	5, 722.9 5,737.1	6,038.5 6,045.8	6.059.5 6.067.3	6,194.4 6.191.9	6,261.6 6,262.1	6,32 7.6 6, 327.1	6,394.6 6,397.4
expenditures Durable goods Nondurable goods	3,761.2 468.2 1.229.2	3,906.4 457.8 1,257.9	4,139.9 497.3 1,300.9	4.1 57 .1 500.9 1.305.7	4.256.2 516.6 1.331.7	4,298.2 515.3 1,335.3	4,359.9 531.6 1,344.8	4.419.4 541.6 1.352.4
Clothing & shoes Food & beverages Services	207.3 604.8 2,063.8	213.0 621.4 2.190.7	228.2 633.7 2,341.6	230.7 631.7 2,350.5	236.1 647.6 2,407.9	233.1 648.2 2,445.5	235.2 654.1 2,483.4	238.3 660.2 2,525.4
Gross private domestic investment Fixed investment	808.9 802.0	736.9 745.5	796.5 789.1	802.2 792.5	833.3 821.3	874.1 839.5	874.1 861.0	883.1 876.0
Change in business inventories Net exports of goods & services Government purchases of	6.9 -71.4	-8.6 -19.6	7.3 -29.6	9.7 -38.8	12.0 38.8	34.6 -48.3	13.1 -65.1	7.2 -73.4
goods & services	1,047.4	1,099.3	1,131.8	1,139.1	1,143.8	1,139.7	1,158.6	1,165.5
			1987 \$ billio	n (quarterly da	ta seasonally a	ıdjustəd at anı	nual rates)	
Gross domestic product Gross national product Personal consumption	4,897.3 4,916.5	4,881.4 4,874.5	4,986.3 4,994.0	4,998.2 5,006.4	5. 068.3 5. 068.4	5,078.2 5,080.7	5,102.1 5,104.1	5,135.8 5,140.5
expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages	3,272.6 443.1 1,060.7 186.2 523.9	3,258.6 426.6 1,048.2 184.7 518.7	3,341.8 456.6 1,062.9 193.7 520.5	3,350.9 459.0 1,062.9 195.4 518.2	3,397.2 473.4 1,081.8 200.0 529.3	3,403.8 471.9 1,076.0 194.8 526.7	3.432.7 484.2 1,083.1 197.8 528.6	3,469.6 492.8 1,092.9 200.6 532.7
Services	1.768.8	1,783.8	1,822.3	1.829.0	1.842.0	1,855.9	1,865.4	1,883.9
Gross private domestic investment Fixed investment Change in business inventories Net exports of goods & services Government purchases of	748.8 741.1 5.7 –54.7	675.7 684.1 -8.4 -19.1	732.9 726.4 6.5 -33.6	739.6 730.0 9.6 -42.5	763.0 754.3 8.7 -38.8	803.0 773.7 29.3 -59.9	803.6 790.6 13.0 -75.2	811.9 806.4 5.5 -87.3
goods & services	932.6	946.3	945.2	950.2	946.9	931,3	941.1	941.7
GDP Implicit price deflator (% change) Disposable personal income (\$ bil.) Disposable per, income (1987 \$ bil.) Per capita disposable per, income (\$) Per capita dis. Per, income (1987 \$) U.S. population, total, incl. military	4.4 4,050.5 3.524.5 16,205 14,101	3.9 4,230.5 3,529.0 16,741 13,965	2.9 4,500.2 3,632.5 17,616 14.219	1.0 4,497.0 3,624.8 17,577 14,169	3.3 4,657.6 3.717.6 18,153 14,490	3.6 4,597.5 3,642.6 17,876 14,163	2.3 4,692.2 3,694.4 18,196 14,326	1.8 4.720.8 3,706.0 18,254 14,330
abroad (mil.) * Civilian population (mil.) *	249.9 247.8	252.7 260.5	255.5 253.5	255.7 253.8	256.5 254.6	257 .1 255.3	257.7 255.9	258.5 256.7
		Annual		1992		1	993	
	1990	1991	1992	Oct	July	Aug	Sept	Det
			A	onthly data se	asonally adju	sted		
Industrial production (1987=100) Leading economic indicators (1987=100)	106.0 98.4	104.1 97.1	106.5 98.1	107.5 98.0	110.8 97.9	110.9 98.4	111.4 98.6	112.2 99.1
Civilian employment (mil. persons) Civilian unemployment rate (%) Personal income (\$ bil. annual rate)	117.9 5.5 4,673.8	116.9 6.7 4.850.9	117.6 7.4	117.7 7.4 5.239.1	119.3 6.8 5,363.1	119.7 6.7 5.429,5	119.5 6.7 5.437.5	119.9 6.8 5,470.7
Money stock-M2 (daily avg.) (\$ bil.) 1/ Three-month Treasury bill rate (%) AAA corporate bond yield (Moody's) (%) Housing starts (1,000) 2/	3.345.5 7.51 9.32 1,193	3,445.9 5.42 8.77 1,014	5,144,9 3,494 8 3,45 8,14 1,200	3,490.0 2,84 7.99 1,226	3,516.3 3.05 7.17 1,232	3.520.9 3.05 6.85 1.328	3.532.7 2.96 6.66 1,359	3,535.3 3.04 6.87 1,396
Auto sales at retail, total (mil.) Business inventory/sales ratio Sales of all retail stores (\$bil.) 3/ Nondurable goods stores (\$ bil.) Food stores (\$ bil.) Eating & drinking places (\$ bil.) Apparel & accessory stores (\$ bil.)	9.5 1.53 1,849.8 1,178.8 369.8 191.0 95.8	8.4 1.54 1.865.8 1.211.6 376.9 196.9 97.5	8.4 1.50 1.956.5 1,257.3 384.0 201.9 105.0	8.3 1.49 167.0 106.3 32.1 17.2 9.0	8.6 1.47 173.4 108.2 32.7 17.5 8.9	8.6 1.46 174.6 108.3 32.9 17.9 8.8	8.5 1.45 174.7 109.2 32.7 18,1 9.1	177.3 110.1 33.0 18.3 9.0

^{1/} Annual data as of December of the year listed. 2/ Private, including farm. 3/ Annual total. P = preliminary, -- = not available. Note: * Population estimates based on 1990 census.

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Table 3.—World Economic Growth

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1092 E	1993 F	1994 F	Average 1983-92
						F	Percent ch	ange in re	GDP				
World World, less U.S.	2.7 2.5	4.3 3.6	3.3 3.4	2.7 2.7	3.1 3.1	4.4 4.8	3.3 3.6	2.2	0.7 1.5	2.0 1.7	1. 7 1.2	2.5 2.2	2. 9 3.0
Developed Developed, less U.S. United States Canada Japan Western Europe European Union Germany	2.6 2.2 3.3 3.2 2.7 1.6 1.5	4.3 3.4 8.0 8.4 4.3 2.4 2.3 2.8	3.2 3.3 3.0 4.7 5.0 2.5 2.4 1.9	2.7 2.8 2.6 3.3 2.7 2.7 2.7 2.7	3.1 3.2 3.0 4.1 4.1 2.6 2.7 1.4	4.4 4.7 3.9 4.7 6.2 3.7 3.9 3.7	3.3 2.8 2.5 4.7 3.3 3.3	2.4 3.3 0.8 0.4 5.2 2.8 2.9 2.9	0.9 2.1 -0.7 -1.7 4.1 0.2 0.4 0.8	1.7 1.2 2.6 0.7 1.3 0.8 1.0 1.5	1.0 0.0 2.8 2.5 -0.5 -0.7 -0.8 -1.6	2.0 1.3 3.2 3.5 1.0 1.2 1.1	2.9 3.0 2.6 2.8 4.0 2.3 2.3 2.2
Central Europe Former Soviet Union	2.7 4.4	3.5 4.1	2.0 1.7	3.0 3.8	1.5 2.8	2.1 1.5	-0.3 0.8	-8.7 -5.8	-13.8 -12.3	-10.3 -17.9	0.4 -12.4	4.5 -6.8	-1.8 -1.7
Developing Asia Pacific—Asia China South Asia India Latin America Mexico Caribbean/Central South America Brazil Middle East Africa North Africa Sub—Sahara Mid—East & N. Africa	3.2 6.3 8.9 10.1 7.0 7.4 -2.8 -4.2 -2.8 -3.4 1.2 3.3 1.2 -0.4 7.1	4.8 7.7 9.4 14.4 13.9 3.7 0.5 4.1 2.8 1.0 2.7 -0.1	4.2 6.4 12.3 6.4 12.5 6.4 3.2 2.2 4.0 9 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0.1 3.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 1.5 0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0	3.9 6.6 7.3 8.8 4.8 4.8 4.3 9 2.1 7.1 9 3.3 4.4 3.3 4.4 3.3 4.4 4.8 4.7	4.4 7.8 9.0 11.0 4.8 4.7 3.2 2.8 3.5 3.5 0.4 -0.8 -1.4	4.9 9.5 9.5 10.7 9.4 10.3 0.8 0.4 -0.6 2.7 1.3 3.7 -1.1	3.58.1.3.1.4.3.4.1.5.3.7.0.9.1.8.2.1.5.3.2.3.2.3.8.3.2.3.8.3.2.3.8.3.3.3.3.3.3	3.3.3.6.6.4.5.5.6.1.5.5.6.1.4.7.2.5.9.1.2.0.8.1.2.0.0.1.2.0.8.1.2.0.0.1.2.0.0.1.2.0.0.0.0.0.0.0.0.0.0	3.5 6.4 6.6 1.2 3.6 0.1 0.2 2.8 2.8 2.8 2.8 2.8	5.5 7.7 9.0 12.8 3.5 2.2 2.8 0.2 1.9 2.5 1.8 1.0 2.4 5.6	5.54 8.23 12.30 5.53 12.30 46.1 12.4 4.9	5.3.7 7.1 7.8.8 5.5.8.8 3.3.0 4.3.5 4.6.9 2.3.2 4.2.2 4.2.3 2.4.2	4.2 7.1 7.9 9.62 5.2 1.96 0.0 2.0 1.8 2.0 1.5

E = estimate. F = forecast.

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Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

		Annual		1992			1	1993		
	1990	1991	1992	Nov	June	July	Aug	Sept	Oct R	Nov P
					1977 = 10	Ф				
Prices received Alt farm products	149	145	140	138	140	140	142	145	145	143
All crops	127	129	121	115	112	118	123	128	130	129
Food graine	123	115	139	133	113	114	118	123	130	138
Food grains & hay	123	117	118	104	110	113	115	113	118	130
Feed grains	118	115	114	100	104	110	112	109	113	127
Cotton	107	108	88	87	88	8.0	68	86	87	90
Tobacco	152	181	154	184	141	141	143	155	157	152
Oil-bearing crops	94	91	86	85	83	101	101	97	94	101
Fruit, all	188	282	181	168	146	142	192	258	286	183
Fresh market 1/	196	285	165	168	148	143	203	284	317	192
Commercial Vegetables	142	135	155	144	123	140	147	148	124	148
Fresh market	144	140	157	143	118	143	152	152	122	151
Potatoes & dry beans	189	141	124	127	154	184	144	131	131	148
Livestock & products	170	101	157	156	166	161	162	150	159	157
Meat animals	193	188	178	173	188	182	183	181	177	171
Dairy Producte	341	126	135	135	135	132	129	131	135	138
Poultry & egge	131	124	117	127	129	124	130	120	128	129
Prices paid										
Commodities & services,										
interest, taxes. & wage rates	184	189	191	191	197	197	197	197	199	199
Production Items	171	174	174	174	179	178	178	178	181	181
Feed	128	123	123			124	_		127	_
Feeder livestock	213	214	202	-	_	218	_	_	216	_
Seed	165	163	162	_	-	189			169	_
Fertilizer	131	134	131	_	_	129		11-00-00	127	_
Agricultural chemicals	139	151	159	-	_	188	_	-	166	
Fuels & snergy	204	203	199	_	_	198		_	203	_
Farm & motor supplies	154	157	160	_	-	159		-	159	
Autos & trucks	231	244	258			275			276	
Tractors & self-propelled machinery	202	211	219	-	_	223		1000	237	_
Other machinery	216	226	233	_	_	245		_	248	
Building & fencing	144	146	150	_	-	156			158	-
Farm services & cash rent	166	171	172			172	-	1	172	
int, payable per acre on farm real estate debt	177	189	167	_	_	164		(868)	164	
Taxes payable per acre on farm real estate	158	164	171	_	_	178	-	-	178	_
Wage rates (seasonally adjusted)	191	200	209			222		_	222	_
Production items, interest, taxes, & wage rates	172	175	176	_	-	180	-	_	182	
Ratio, prices received to prices paid (%) 2/	61	77	73	71	71	71	72	74	73	72
Prices received (1910-14=100)	681	665	637	623	639	639	851	661	662	654
						1,358	031	pa i	1.366	054
Prices paid, etc. (parity index) (1910-14=100) Parity ratio (1910-14=100) (%)2/	1.2 67 54	1.298 51	1.317	_	_	47		-	48	_
Lattich latto-14m (A0) (40)53	54	91	49	_	_	97		_	40	

1/ Fresh market for nonclitus; fresh market & processing for citrus. 2/ Ratio of index of prices received for all farm products to index of prices paid for commodities & services, interest, taxes, & webs rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October, R = revised. P = preliminary. — = not available.

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Table 5.—Prices Received by Farmers, U.S. Average

		Annual 1/		1992				1993		
CROPS	1990	1991	1992	Nov	June	July	Aug	Sept	Oct R	Nov P
All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt)	2.61	3.00	3.24	3.29	2.84	2.85	2.95	3.11	3.22	3.36
	6.70	7.58	5.95	6.42	5.02	4.92	4.98	5.13	6.12	7.25
	2.28	2.37	2.05	1.98	2.09	2.22	2.25	2.21	2.29	2.81
	3.79	4.01	3.30	3.21	3.41	3.72	3.77	3.89	3.81	4.35
All hay, baled (\$/ton) Soybeans (\$/bu.) Cotton, upland (cts./fb.)	80.60 5.74 67.1	71.20 5.58 56.8	73.20 5.50	73,40 5,38 52,7	80.50 5.90 53.0	77.20 6.57 54.1	77.40 6.55 53.1	77.60 6.21 52.2	82.50 6.01 52.7	83.60 6.56 54.6
Potatoes (\$/cwt)	6.08	4.96	5.28	4.90	6.57	7.93	5.91	5.10	5.01	5.75
Lettuce (\$/cwt) 2/	11.50	11.40	12.40	9.50	11.50	16.90	15.20	16.90	12.20	11.10
Tomatoes fresh (\$/cwt) 2/	27.30	31.60	36.20	39.50	21.90	20.00	33.30	30.30	19.30	39.80
Onlons (\$/cwt)	10.50	12.50	12.80	12.60	10.30	13.10	15.00	13.50	12.00	17.20
Dry edible beans (\$/cwt)	18.50	15.60	20.70	21.30	16.50	18.70	19.10	21.30	22.90	24.00
Apples for fresh use (cts:/lb.) Pears for fresh use (\$/ton) Ofanges, all uses (\$/box) 3/ Grapefruit, all uses (\$/box) 3/	20.9	25.1	19.2	19.3	16.1	18.0	23.1	26.5	22 4	20.5
	360.00	385.00	378.00	433.00	538.00	401.00	353.00	400.00	391.00	361.00
	6.13	6.78	5.79	3.31	3.89	4.10	5.44	10.52	11.87	5.25
	5.86	5.55	6.25	4.66	0.98	0.14	2.44	3.51	8.13	4.19
LIVESTOCK Beef cartle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambs (\$/cwt)	74.80	72.90	71.38	70.20	74.70	72.60	72 60	71.40	69.10	68.00
	96.50	99.90	89.65	86.50	99.00	96.90	95 10	93.30	93.80	91.50
	54 00	48.80	41.88	41.10	48.20	45.90	47.50	47.80	47.00	43.60
	56.00	52.50	60.76	58 20	58.80	54.20	59.40	64.70	64.50	68.00
All milk, sold to plants (\$/cwt) Milk, manuf, grade (\$/cwt) Brollers (cts./lb.) Eggs (cts./doz.) 4/ Turkeys (cts./lb.) Wool (cts./lb.) 5/	13.74	12.27	13.16	13.10	13.10	12.80	12.50	12.70	13.10	13.40
	12.34	11.05	11.91	12.00	11.90	11.30	11.00	11.90	12.40	12.50
	32.4	31.0	30.8	33.3	34.4	35.0	36.3	38.5	35.1	34.7
	70.4	68.2	57.7	64.3	65.4	57.6	61.3	56.1	60 0	62.6
	38.4	37.7	38.0	39.4	37.3	38.9	39.5	40.4	43.1	42.9
	80.0	55.0	74.0	60.0	55.1	48.6	38.8	37.8	51.6	50.6

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Excludes Hawaii. 3/ Equivalent on-tree returns. 4/ Average of all eggs sold by producers including hatching eggs & eggs sold at retait. 5/ Average local market price, excluding incentive payments. P = preliminary. R = revised. — = not available.

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Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual	1992				1	993			
	1992	Nov	Арг	May	June	July	Aug	Sept	Oct	Nov
				1	982-84=10	0				
Consumer Price Index, all items	140.3	142.0	144.0	144.2	144.4	144.4	144.8	145.1	145.7	145.8
Consumer Price Index, less food	140.8	142.7	144.6	144.8	145.1	145.2	145.6	145.1	146.4	146.6
All food	137.9	138 3	140.6	141.1	140.4	140.3	140.8	141.1	141.6	141.9
Food away from home	140.7	141.5	142.7	142.9	143.2	143.4	143.6	143.8	144.0	144.2
Food at home	136.8	137.0	140.0	140.7	139.3	139.1	139.7	140.0	140.8	141.2
Meats 1/	130.7	131.2	133.8	134.7	134.9	135.5	135.6	135.5	135.9	136.3
Beef & veal	132.3	132.9	137.6	138.2	137.6	137.4	137.4	137.0	137.2	138.0
Pork	127.8	127.9	128.5	130.5	132.1	134.2	133.8	134.6	134.6	134.4
Poultry	131.4	133.6	135.2	136.6	136.5	136.0	137.5	138.0	139.2	139.7
Fish	151.7	151.2	159.7	154.7	154.8	153.2	154.1	155.4	157.4	158.9
Eggs	108.3	113.4	126.9	114.9	116.4	115.1	117.4	113.4	114.9	118.0
Dairy products 2/	128.5	129.4	128.0	128.0	129.8	130.2	130.5	129.6	129.5	129.5
Fats & oils 3/	129.8	128.5	130.2	129.4	130.1	130.4	130.1	130.0	130.0	129.2
Fresh fruit	184.2	181.4	164.6	188.0	176.1	178.7	184.7	193.3	197.7	194.4
Processed fruit Fresh vegetables Potatoes Processed vegetables	137.7	135.5	132.1	130.7	129. 7	131.0	132.2	132.4	132.8	133.4
	157.9	158.4	179.3	189.6	167.1	155.8	156.1	157.4	157.7	166.1
	141.5	136.0	152.0	156.0	163.4	165.2	165.8	156.1	152.1	158.3
	128.8	127.7	130.4	129.9	130.9	131.2	131.4	130.9	131.7	131.7
Cereals & bakery products	151.5	152 7	155.4	156.3	156.7	157.2	1 5 7.5	157.7	158.1	157.9
Sugar & sweets	133.1	133.0	133.2	133.4	133.1	133.2	133.7	133.3	134.1	133.7
Beverages, nonalcoholic	114.3	112.4	114.2	115.0	114.6	114.4	114.1	113.8	115.4	115.4
Apparel Apparel, commodities less footwear Footwear Tobacco & smoking products Beverages, alcoholic	130.2	133.1	135.9	133.4	129.7	126.9	130.0	133.0	134.7	134.6
	125.0	126.0	127.1	127.8	125.6	123.9	123.5	126.2	127.3	127.4
	219.8	225.0	237.3	237.9	236.2	235.8	227.9	215.1	214.0	214.5
	147.3	148.2	149.7	149.5	149.6	149.6	149.7	149.9	150.1	150.0

^{1/} Beef, veal, lamb, pork, & processed meat, 2/ includes butter. 3/ Excludes butter.

Information contact: Ann Duncan (202) 219-0313.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

		Annual		1992			1	993		
	1990	1991	1992	Oct	May	June R	July	Aug	Sept	Oct
					1982 =	100				
All commodities	116.3	116.5	117,2	118.1	119.7	119.5	119.3	118.8	118.7	119.1
Finished goods 1/	119.2	121.7	123.2	124.4	125.8	125.5	125.3	124.3	123.9	124.7
Ali foods 2/	123.2	122.2	120.9	121.3	125.0	123.2	123.1	123.3	123.4	123.4
Consumer foods	124.4	124.1	123.3	123.8	126.9	125.4	125 0	125.4	125 6	125.5
Fresh fruit & melons Fresh & dried vegetables Dried fruit Canned fruit & juice Frozen fruit & juice	118.1 118.1 106.7 127.0 139.0	129.9 103.8 111.8 128.6 118.3	84.0 115.0 114.6 134.5 125.9	79.3 141.1 114.7 132.1 118.2	90.7 164.3 118.2 124.7 105.2	83.2 104.5 118.5 124.7 110.2	79.6 116.3 117.1 125.7 117.0	84.2 117.6 119.4 126.1 114.5	91.5 115.4 117.9 126.3 114.8	88.6 103.2 121.1 125.8 116.2
Fresh veg. excl. potatoes Canned veg. & juices Frozen vegetables Potatoea Eggs for fresh use (1991=100) Bakery products	107.8 118.7 118.4 157.3 3/ 141.0	100.2 112.9 117.6 125.7 3/ 146.6	116.4 109.5 116.4 118.4 78.6 152.5	149.0 109.1 116.3 107.3 78.1 154.1	164.3 110.0 119.9 142.3 82.9 156.0	80.7 109.9 121.1 147.5 87.6 156.4	98.4 110.9 121.2 137.3 77.5 156.6	110.5 109.5 121.1 143.7 89.0 156.8	115.2 110.9 122.1 134.0 75.7 157.3	89.5 112.0 123.3 143.7 85.8 157.8
Meats Beef & veal Pork Processed Poultry Fish Dairy products Processed fruits & vegetables Shortening & cooking oil Soft drinks	117.0 116.0 119.8 113.6 147.2 117.2 124.7 123.2 122.3	113.5 112.2 113.4 109.9 149.5 114.8 119.8 116.5 125.5	106.7 109.5 98.9 109.0 156.1 117.9 120.8 115.1 125.6	106.7 109.0 99.9 111.8 150.4 119.4 119.1 113.3 125.1	114.7 120.5 107.2 111.5 159.1 118.5 116.7 120.1	113.6 118.4 109.8 111.2 156.5 119.5 117.8 119.3 128.8	111.2 112.5 107.4 110.1 147.2 119.4 119.0 127.9 125.5	109.9 110.9 105.8 112.9 146.2 117.9 118.4 128.0 128.0	110.2 110.5 108.0 115.3 147.9 118.3 119.1 128.5 125.8	108.1 105.9 108.9 115.9 155.1 118.8 119.9 128.4 126.2
Consumer finished goods less foods;	115.3	118.7	120.8	122 3	123.3	123.4	123.0	121.0	120.6	121.2
Beverages, alcoholic Apparel Footwear Tobacco products	117.2 117.5 125.6 221.4	123.7 119.6 128.6 249.7	126.1 122.2 132.0 275.3	125.5 122.9 132.4 274.2	126.5 123.3 134.1 296.9	125.7 123.1 134.2 289.2	125.7 123.5 134.5 287.3	126.0 123.2 134.8 211.3	125.7 123.3 135.0 213.5	125.9 123.2 134.7 214 0
Intermediate materials 4/	114.5	114.4	114.7	115 4	116.2	116.7	116 6	1168	116.8	116.8
Materials for food manufacturing Flour Refined sugar 5/ Crude vegetable oils	117.9 103.6 122.7 115.8	115 3 96.8 121.6 103.0	113.9 109.5 119.8 97.1	112.9 106.5 119.2 91.2	115.6 107.2 118.2 104.1	115.0 106.8 117.5 99.8	116.6 105.7 118.1 114.9	116 3 109.6 119.9 114.2	118.5 106.3 119.4 111.5	1188 109.4 119.0 111.0
Crude materials 6/	108.9	101.2	100.4	101.9	106.5	104.2	102.7	101.6	101.0	102.2
Foodstuffs & feedstuffs Fruits & vegetables & nuts 7/ Graine Livestock Poultry, live	113.1 117.5 97.4 115.6 118.8	105.5 114.7 92.0 107.9 111.2	105.1 96.9 97.3 104.7 112.6	103.7 105.2 87.8 104.2 119.3	112.2 120.8 91.1 112.8 132.3	107.2 93.9 85.3 109.8 118.9	107.7 97.2 91.2 105.0 124.4	108.1 99.5 93.9 107.1 125.9	107.5 101.5 92.2 105.7 135.1	105.6 94.4 96.4 100.0 126.1
Fibers, plant & animal Fluid milk Oilseeds Tobacco, leaf Sugar, raw cane	117.8 100.8 112.1 95.8 119.2	115.1 89.5 106.4 101.1 113.7	89.8 96.1 107.5 101.0 112.1	82.8 98 1 101.2 105.5 113.6	93.3 95.9 114.2 91.8 111.4	90.5 96.5 109.6 91.8 112.4	90.8 96.6 127.9 91.8 114.2	86.5 93.3 123.8 93.1 115.9	89.4 93.1 118.4 99.6 115.3	92.0 94.9 114.3 102.2 114.6

^{1/} Commodities ready for sale to ultimate consumer. 2/ Includes all raw, intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). 3/ New index beginning Dec. 1991. 4/ Commodities requiring further processing to become finished goods 5/ Alf types & sizes of refined sugar. 6/ Products entering market for the first time that have not been manufactured at that point. 7/ Fresh & dried. R = revised.

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Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

		Annual		1992			1	993		
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Market basket 1/					-				•	
Retail cost (1982-84=100) Farm value (1982-84=100)	133.5 113.1	13 7. 4 106.1	138.4 103.4	138.9 104.0	142.6 108.9	141.1 105.0	141.0 104.2	141.8 103.8	142.2 104.9	142.8 102.2
Farm-retail spread (1982-84=100)	144.5	154.2	157.3	157.7	180.7	160 5	160.8	162 2	162.2	164.7
Farm value-retail cost (%)	29.7	27.0	26.2	26.2	26.8	26.1	25.9	25.6	25.8	25.1
Meat products Retail cost (1982–84=100)	128.5	132.5	130.7	131.1	134.7	134.9	135.5	135.6	135.5	135.9
Farm value (1982-84=100)	116.8	110.0	104.5	104.2	113.2	111.8	108.0	105.1	106.9	103.3
Farm-retail spread (1982-84=100)	140 4	155.6	157.5	158.7	156.8	158.6	163.7	166.9	164.9	169.3
Farm value-retail cost (%) Dailry products	46.0	42.0	40.5	40.3	42.5	42.0	40.4	39.2	39.9	38.5
Retail cost (1982-84=100)	126.5	125.1	128.5	130.1	128.0	129.8	130.2	130.5	129.6	129.5
Farm value (1982–84=100)	101.7 149.5	90.0 157.5	95.9 158.6	97 4 160.2	92.4 160.8	96.5 160.5	95.6 162.1	93.5 164.6	91.7 164.5	91.7 164.3
Farm-retail spread (1982-84=100) Farm value-retail cost (%)	38.5	34.5	35.8	35.9	34.6	35.7	35 2	34.4	34.0	34.0
Poultry									400.0	400.0
Retail cost (1982–84⇒100) Farm value (1982–84⇒100)	132.5 107.6	131.5 102.5	131.4 104.0	133.3 107.9	136.6 115.4	136.5 111.3	136.0 113.7	137.5 117.5	138.0 118.5	139 2 116.0
Farm-retail spread (1982-84=100)	161 1	164.9	163.0	162.6	161.1	165.5	161.7	160.5	160.5	165.9
Farm value-retail cost (%)	43.5	41.7	42.4	43.3	45.2	43.6	44.7	45.7	46.0	44.6
Eggs Retail cost (1982–84=100)	124.1	121.2	108.3	109.3	114.9	116.4	115.1	117.4	113.4	114.9
Farm value (1982-84=100)	108.0	100.9	77.8	78.2	83.5	88.5	80.8	88.0	77.9	84.2
Farm-retail spread (1982-84=100)	153 2	157.6	163.2	165.2	171.3	188.5	176.7	170.2	177.2	170.0 47.1
Farm value-retell cost (%) Cereal & bakery products	55.9	53.5	46.1	46.0	46.7	48.9	45.1	48.2	44.1	97-1
Retail cost (1982-84=100)	140.0	145.8	151.5	152.8	156.3	156 7	157.2	157.5	157.7	158.1
Farm value (1982-84=100) Farm-retait spread (1982-84=100)	90.5 146.9	85.3 154.3	94.7 159.4	89.7 161.6	88.0 165.8	83.5 166.9	85.5 167.2	88.1 1 6 7.2	87.7 1 6 7.5	91.1 167.4
Farm value-retail cost (%)	7.9	7.2	7.7	7.2	6.9	6.5	6.7	6.8	8.8	7.1
Fresh fruits	4700		100.0	400.0		100.0	400.5	400.4	000 7	000 4
Retail cost (1982–84=100) Farm value (1982–84=100)	174.6 128.3	200.1 174.4	189.6 1 22 .5	188.0 117.1	193.1 132.8	180.9 133.4	183.5 121.2	192,1 134.2	203.7 151.1	208.1 140.0
Farm-retail spread (1982-84=100)	195.9	211.9	220.6	220.8	220.9	202.8	212.3	218.8	228.0	239.5
Farm value-retail cost (%)	23.2	27.5	20.4	19.7	21.7	23.3	20.9	22.1	23.4	21.3
Fresh vegetables Retail costs (1982–84100)	151.1	154.4	157.9	155.2	189.6	167.1	155.8	156.1	157.4	157. 7
Farm value (1982-84=100)	124.4	110.8	120.5	133.2	173.3	107.3	109.4	112.4	120.5	100.5
Farm-retail spread (1982-84=100) Farm value-retail cost (%)	164.9 28.0	176.8 24.4	177.2 25.9	166.5 29.1	198.0 31.0	197.8	179.7 23.8	178 5 24.5	176.4 26.0	187.1 21.6
Processed truits & vegetables	20.0	27.4	20.0	20.1	31.0	21.0	20.0	24.0	20.0	
Retall cost (1982-84=100)	132.7	130.2	133.7	133.1	130.2	130.0	131.0	131.7 103.7	131.6 103.9	132.2 104.8
Farm value (1982-84=100) Farm-retail spread (1982-84±100)	144.0 129.1	120.6 133.2	129.0 135.2	127.0 135.0	102.2 138.9	101.4 138 9	103.8 139.5	140.4	140.3	140.8
Farm value-retail costs (%)	25.8	22.0	22.9	22.7	18.7	18.6	18.8	18.7	18.8	18.8
Fats & oils Retail cost (1982-84=100)	100.0	121 9	100.0	100.0	129.4	130.1	130.4	130.1	130.0	130.0
Farm value (1982-84±100)	126.3 107.1	131.7 98.0	129.8 93.2	129.9 90.0	101.1	101.6	114.3	107.8	109.9	106.6
Farm-retail spread (1982-84=100)	133.4	144.2	143.3	144.6	139.8	140.6	136.3	138.3	137.4	138.9
Farm value-retail cost (%)	22.8	20.0	19.3	18.6	21.0	21.0	23 6	22.3	22.7	22.1
		Annual		1992			1	993		
	1990	1991	1992	Nov	June	July	Aug	Sept	Oct	Nov
Beef, Choice Retail price 2/ (cts./lb.)	281.0	288.3	284 6	287.1	297.9	296.7	290.9	288.4	288.5	291.0
Wholesale value 3/ (cts.)	189.6	182.5	179.6	177.1	185.2	175.9	179.4	176.3	171.6	174.2
Net farm value 4/ (cts.)	168.4	160.2	161 8	159.5	165.8	157.6	160.1	156.2	151.0	152.1
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	112.6 91.4	128.1 105.8	122.8 105.0	127. 0 110.0	132.1 112.7	139.1 120.8	130.8 111.5	132.2 112.1	137.5 11 6 .9	138.9 116.8
Farm-wholesale 6/ (cts.)	21.2	22.3	17.8	17.6	19.4	18.3	19.3	20.1	20.6	22.1
Farm value-retail price (%)	60	56	57	56	56	53	55	54	52	52
Pork Retail price 2/ (cts./lb.)	212.6	211.9	198.0	196.4	196.5	200.2	198.7	201.6	201.2	202.1
Wholesale value 3/ (cts.)	118.3	108.9	98.9	96.9	105.7	102.8	105.8	105.5	106.5	103.7
Net farm value 4/ (cts.)	87.2 125.4	78.4 133.5	67.8 130.2	66.0 130.4	77.0 119.5	73.6 126.6	7 6 .9 121.8	77.0 124.6	75.0 126.2	68.2 133.9
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	94.3	103.0	99.1	99.5	90.8	97.4	92.9	96.1	94.7	98.4
Farm-wholesale 6/ (cls.)	31.1	30.5	31.1	30.9	28.7	29.2	28.9	28.5	31.5	35.5
Farm value~retail price (%)	41	37	34	34	39	37	39	38	37	34

^{1/} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit. less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing, 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS, 3/ Value of wholesale (boxed beef) & wholesale cuts (pork) equivalent to 1 b, of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 b, of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, & in-city transportation. 6/ Charges for livestock marketing, processing, & transportation.

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Table 9.—Price Indexes of Food Marketing Costs

(See the December 1993 issue.)

Information contact: Denis Dunham (202) 219-0870...

Livestock & Products

Table 10.—U.S. Meat Supply & Use

							Cons	umption	
	Beg. stocks	Produc- tion 1/	Imports	Total supply	Exports	Ending stocks	Total	Per capita 2/	Primary market price 3/
			Mill	ion pounds 4/				Pounds	
Beef 1991 1992 1993 F 1994 F	397 419 360 425	22,917 23,086 23,166 23,993	2,406 2,440 2,410 2,370	25,720 25,945 25,936 26,788	1,188 1,324 1,285 1,410	419 360 425 350	24,113 24,261 24,226 25,028	66.8 66.5 65.7 67.2	74.28 75.36 76-77 71-77
Pork 1991 1992 1993 F 1994 F	296 388 385 375	15,999 17,234 16,995 16,949	775 645 710 725	17,070 18,267 18,090 18,049	283 407 412 400	388 385 375 375	16,399 17,475 17,303 17,274	50.4 53.1 52.0 51.4	49.69 43.03 46-47 44-50
Veal 5/ 1991 1992 1993 F 1994 F	6 7 5	30 6 310 284 282	0 0 0	312 317 286 286	0 0 0	7 5 4 6	305 312 280 277	1.0 1.0 0.9 0.9	99.94 89.38 95-96 90-96
Lamb & mutton 1991 1992 1993 F 1994 F	8 6 8 10	363 348 335 341	41 50 50 50	412 404 393 401	10 8 9 8	.6 8 10 9	396 388 374 384	1.4 1.4 1.3 1.3	53.21 61.00 65-66 61-67
Total red meat 1991 1992 1993 F 1994 F	707 820 758 814	39,585 40,978 40,775 41,561	3,223 3,135 3,170 3,145	43.515 44.933 44,703 45,520	1,481 1,739 1,706 1,818	820 758 814 739	41.214 42,436 42,183 42.963	119.6 121.9 119.9 120.7	=
Broilers 1991 1992 1993 F 1994 F	26 36 33 33	19,591 20,904 22,012 23,196	0 0 0	19,617 20,940 22,045 23,229	1,261 1,489 1,860 1,905	36 33 33 33	18,320 19,418 20,153 21,291	63.7 66.8 68.6 71.7	54.8 52.6 54-55 50-56
Mature chicken 1991 1992 1993 F 1994 F	224 274 345 325	508 520 510 517	0 0 0	732 794 855 84 2	28 41 59 64	274 345 325 340	429 408 472 438	1.7 1.6 1.8 1.7	-
Turkeys 1991 1992 1993 F 1994 F	306 264 272 260	4,603 4,777 4,797 4,901	0 0 0	4,909 5.041 5,068 5,161	103 171 228 195	264 272 260 275	4,541 4,599 4,581 4,691	18.0 18.0 17.7 18.0	61.3 60.2 62-63 59-65
Total poultry 1991 1992 1993 F 1994 F	557 575 650 618	24,701 26,201 27,319 28,614	0 0 0	25.258 26,775 27,969 29,232	1,392 1,701 2,146 2,164	575 650 618 648	23,291 24,425 25,205 26,420	83.4 86.4 88.2 91.4	
Red meat & poultry 1991 1992 1993 F 1994 F	1.264 1.395 1,408 1,432	64.286 67,179 68,094 70,175	3,223 3,135 3,170 3,145	68.772 71,708 72.671 74,752	2,873 3,440 3,852 3,982	1,395 1,408 1,432 1,387	64,504 66,861 67,388 69,383	202.9 208.3 208.0 212.2	

^{1/} Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass-to-retail conversion factor was 70.5). 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Medium # 1, Nebraska Direct 1,100–1,300 lb.; pork. barrows & gilts. lows. Southern Minnesotts; was farm price of calves; lamb & mutton: Choice staughter lambs. San Angelo; broilers: wholesale 12-city average; turkeys, wholesale NY 8-18 lb. young hens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 yeal trade no longer reported separately. F = forecast. — = not available.

Information contacts: Polly Cochran or Maxine Davis (202) 219-0767.

Table 11.—U.S. Egg Supply & Use

		Pro-				Hatch-		Consur	nption	
	Beg. stocks	duc- tion	lm- ports	Total supply	Ex- ports	ing	Ending stocks	Total	Per capita	Wholesale price*
			M	illion dozen					No.	Cts./doz
1987	10.4	5,868.2	5.6	5,884.2	111.2	599.1	14.4	5,159.5	254.9	81.6
1988	14.4	5,784.2	5.3	5,803.9	141.8	605.9	15.2	5,041.0	24 6.9	62.1
1989	15.2	5,598.2	25.2	5,638.5	91.6	643.9	10.7	4,892.4	237.3	81.9
1 99 0	10.7	5,665.6	9.1	5,685.3	100.5	678.5	11.6	4,894.7	235.0	82.2
1991	11.8	5,779.3	2.3	5,793.3	154.3	708 1	13.0	4,917.9	233.5	77.5
1992	13.0	5,882.7		5,899.0	157.0	728.4	13.5	5,001.0	235.0	65.4
1993 F	13.5	5,951,3	5.0	5.969.8	158.6	760.1	12.0	5.039.0	234.2	72-73
19 94 F	12.0	6,015,0	4.5	6,031.5	160.0	780.0		5,078.5	233.7	66-72

^{*} Cartoned grade A large eggs. New York. F = forecast.

Information contact: Maxine Davis (202) 219-0767.

Table 12.—U.S. Milk Supply & Use 1/

			Com	nercial		Table		Comm	ercial	All	GCG	net removale
	Produc- tion	Harm Farm	Farm market- ings	Beg.	Im-	Total commer- cial eupply	CCC net ra- movals	Ending stocks	Disap- pear- ance	milk price 1/	Skim solids basis	Total solids basis 2/
				В	illion pour	ida (milkfat baa	in)			\$/cwt	Billion	pounde
1985 1986 1987 1988 1989 1990	143.0 143.1 142.7 145.2 144.2 148.3	2.5 2.4 2.3 2.2 2.1 2.0	140.8 140.7 140.6 142.9 142.2 146.3	4.8 4.5 4.1 4.6 4.3 4.1	2.8 2.7 2.5 2.4 2.5 2.7	148.2 147.9 147.1 149.9 149.0 153.1	13.3 10.8 0.8 9.1 9.4 9.0	4.5 4.1 4.6 4.3 4.1 5.1	130.4 133.0 135.7 136.5 135.4 138.9	12.78 12.51 12.54 12.26 13.56 13.68	17.2 14.3 9.3 5.5 0.4 1.8	15.6 12.9 8.3 6.9 4.0
1991 1992 1993 F	148.5 151.7 151.9	2.0 1.9 1.9	146.5 149 8 160.0	5.1 4.5 4.7	2.6 2.5 2.6	154.3 156.7 157.3	10.4 10.1 7.4	4.5 4.7 4.5	139.4 14 2.0 145.4	12.24 13.09 12.80	3.9 2.4 4.9	6.5 5.4 5.9

^{1/} Dalivered to plants & dealers: does not reflect deductions. 2/ Arbitrarily weighted average of milkfat basis (40 percent) & skim solids basis (60 percent). F = forecast. Information contact: Jim Miller (202) 219-0770.

Table 13.—Poultry & Eggs

		Annual		1992				1993		
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Brollera Federally inspected slaughter. certified (mil. 1b.) Wholesale price,	18.555.0	19.727.7	21,052.4	1,834.0	1.786.8	1,979.4	1.801.8	1.905.5	1,913.3	1.888.4
12-city (cts./lb.) Price of grower feed (\$/ton) Broller-leed price ratio 1/	54.8 218 3.0	52.0 208 3.0	52.6 208 3.1	53.7 207 3.2	57.9 210 3.4	55.0 208 3.3	55.4 206 3.4	57.8 202 3.6	57 6 203 3.6	55.7 219 3.2
Stocka beginning of period (mll. lb.) Broller-type chicks hatched (mll.) 2/	38.3 6,324.4	26.1 6,616.5	36 t 6,830.9	31.1 547.0	32.8 824.3	36.3 610.7	40.7 614.3	37.1 607.9	33.3 578.6	36.2 580.0
Turkeys Federally inspected slaughter, certified (mit. lb.)	4,580.7	4,651.9	4.828.9	467.6	3 78.7	446.7	419.3	426.9	436.0	451.4
Wholesele price, Eastern U.S., 8 8–18 lb. young hens (cts./lb.) Price of furkey grower feed (\$ton) Turkey-feed price ratio 1/ Stocks beginning of period (mil. lb.) Poutte placed in U.S. (mil.)	63.2 238 3.2 235.9 304.9	61.3 230 3.3 306.4 308.1	60.2 242 3.1 264.1 307.8	63.9 241 3.2 734.4 21.9	58.8 248 3.1 424.4 27.9	58.4 249 3.0 474.0 28.4	59.8 251 3.1 556.1 28.6	63.4 247 3.2 625.3 26.2	66.7 245 3.3 678.6 21.3	71.3 254 3.4 713.8 21.0
ggs Farm production (mil.) Average number of layers (mil.)	67.987 270	69,352 275	70,592 278	8,010 279	5 .998 280	5,805 280	5,981 281	5.999 281	5,867 283	6.14 28
Rate of lay (eggs per layer on farms)	251.7	252.4	253.9	21.5	21.4	20.7	21.3	21.3	20.7	21.
Cartoned price, New York, grade A lerge (cts:/doz.) 3/ Price of laying feed (\$/ton) Egg-feed price ratio 1/	82.2 200 7. 0	77.5 192 6.8	65.4 199 5.7	65.3 196 5.8	67. 6 200 6.3	74.7 201 6.5	58.9 202 5.7	72.8 201 6,1	87.2 200 5.8	70. 20 5.
ocks, first of month Shell (mil. doz.) Frozen (mil. doz.)	0.36 10.3	0.45 11.2	0.63 12.3	0.66 15.2	0.18	0.18 11.8	0.21	0,18 13.4	0.18 13 8	0.4 10.
leplacement chicks hatched (mil.)	398	420	386	32.0	37.1	35 1	34 2	32.8	31.9	32.

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 ib. of broller or turkey liveweight. 2/ Placement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Maxine Davis (202) 219-0767.

Table 14.—Dairy

		Annual		1992				1993		
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Milk prices. Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/ Wholesale prices	12 21	11.05	11.88	12.05	12.52	12.03	11.42	11.17	11.90	12.46
Butter, grade A Chl. (cts./ib.) Am. cheese, Wie.	102.1	99.3	82.5	82.2	75.3	76_2	73.5	74.8	74.3	74,2
assembly pt. (cts./lb.) Nonfat dry milk (cts./lb.) 2/	136.7 100.8	124.4 94.0	131.9 107.1	132.4 108.0	141.8 115.3	133.7 112.9	126.3 109.6	124.8 109.3	137.4 109.2	138.9 110.8
USDA net removals 3/ Total milk equiv. (mil. ib.) 4/ Butter (mil. ib.) Am. cheese (mil. ib.) Nonfat dry milk (mil. ib.)	9,017.2 400.3 21.5 117.8	10,425.0 442.8 76.9 269.5	9,978.3 439.9 15.7 142.6	326.5 13.7 0.8 26.5	1,186.3 52.1 1.2 21.1	717.4 31.1 0.9 18.5	278.3 11.3 0.9 25.8	-69.3 -4.5 0.7 31.2	-459.9 -22.4 0.7 28.1	4.6 -1.0 0.6 32.3
Milk Milk prod. 21 States (mil. fb.) Milk per cow (lb.) Number of milk cows (1,000) U.S. milk production (mil. lb.) Stock, beginning	125,772 14,778 8,512 148,314	125,671 14,977 8,391 148,477	128,300 15,546 8,253 151,747	10.532 1,278 8.238 7/ 12,476	11,443 1,404 8,148 7/ 13.563	11,024 1,354 8,144 7/13,066	10,948 1,346 8,134 7/ 12,965	10.572 1.302 8.120 7/ 12,520	10,180 1,253 8,110 7/ 12,029	10,385 1,283 8,095 7/ 12,302
Total (mii, lb.) Commercial (mil, lb.) Government (mii, lb.) Imports, total (mii, lb.) Commercial disappearance	9,036 4,120 4,916 2,690	13,359 5,146 8,213 2,625	15.841 4,461 11.379 2.524	17.921 4.976 12,945 226	17,393 4,563 12,830 244	18.098 4.927 13,171 212	19,107 5.346 13,761 235	17,638 5,375 12,261 190	15.649 5,275 10.374 224	13.840 4.982 8,858
(mil. lb.)	138.922	139,343	142.143	12,438	12,094	11,985	12,730	12,716	12,849	
Butter Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	1.302.2 256.2 91 5.2	1.338.8 416.1 903.5	1.365.2 539.4 943.7	101 6 608.5 89.9	115.1 565.2 58.8	103.9 582.3 80.9	87.2 589.3 72.5	79.3 534.0 83.2	80.4 454.8 108.8	92.1 388.8
American cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2.894.2 236.2 2.784.4	2,768.9 347.4 2,756.7	2,936.6 318.7 2,901.1	237.9 350.5 257.1	277.7 330.1 250.2	266.2 353.0 206.9	259.5 413.6 261.9	237.8 408.9 249.7	213.5 396.7 219.4	239.0 389.8
Other cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	3,167.0 93.2 3.426.4	3,250.0 110.6 3,539.2	3.551.7 97.5 3.795.4	320.3 121.1 344.4	294.0 131.6 320.2	288.7 131.7 311.3	281.2 131.4 312.0	292.2 126.0 315.8	303.0 122.3 339.2	317.1 111.3
Nontat dry milk Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.) Frozen dessert	879.2 49.5 697.6	677.5 161.9 662.7	872.1 214.8 714.8	53.3 112.0 40.5	103.6 87.3 56.1	95.2 113.0 46.2	88.4 143.6 7 5.7	64.9 130.4 31,1	51,1 133.8 61.0	56.3 100.0
Production (mil. gal.) 5/	1,174.6	1.203.1	1,196.8	88.7	110.5	124.4	124.6	117.6	100.0	85.0
		Annual				1992			1993	
	1990	1991	1992		11		IV	I.P.	II P	III.P
Milk production (mil. lb.) Milk per cow (lb.) No. of milk cows (1,000) Milk-feed price ratio 8/ Return® over concentrate costs (\$\cdot \concentrate\)	148,314 14,642 10,127 1,71 10,17	148,477 14,860 9,992 1,58 8,95	151,747 15,423 9,839 1.69 9,74	37.989 3.852 9.863 1.68 9.60	39,077 3.971 9.841 1.65 9.50	37.515 3,818 9,826 1.75 10.10	37.166 3,782 9,827 1,69 9,75	37,763 3,882 9,777 1,61 9,01	39. 5 14 4,068 9,739 1,68 9. 5 7	37,514 3,863 9,710 1,62 9,28

^{1/} Manufacturing grade milk. 2/ Prices paid f.o.b. Central States production area. 3/ Includes products exported through the Dairy Export Incentive Program (DEIP). 4/ Milk equivalent, fat basis. 5/ Hard ice cream, ice milk, & hard sherbet. 6/ Based on average milk price after adjustment for price support deductions. 7/ Estimated. —— m not available. P = preliminary.

Information contact: LaVerne T. Williams (202) 219-0770.

Table 15.-Wool

14510 10. 11001									
		Annual			1992			1993	
	1990	1991	1992	- 11		IV		Н	III
U.S. wool price, (cte./lb.) 1/	256	199	204	222	210	176	146	134	136
Imported wool price, (cts./lb.) 2/	287	187	210	233	203	189	150	137	128
U.S. mill consumption, scoured									
Apparel wool (1,000 lb.)	120.622	137,187	139.715	36,045	34,462	32.278	35.503	34,462	34,403
Carpet wool (1,000 lb.)	12.124	14,352	14.726	3.623	3,145	3.378	4,511	4,341	2,648

^{1/} Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" & up. 2/ Wool price. Charleston, SC warehouse, clean basis, Australian 60/62's, type 84A (24 micron). Duty since 1982 has been 10.0 cents. — = not available. P = preliminary.

Information contact: John Lawler (202) 219-0840.

Table 16.—Meat Animals

		Annual		1992			1	693		
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Cattle on feed (7 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disapparance (1,000 head)	8,378 21,030 19,198 1,218	8.992 19.704 19,066 1,233	8.397 20,498 18,623 1.199	7.495 2.658 1,493 76	8,339 1,781 1,646 131	8.343 1,410 1.723 107	7.923 1,483 1.672 81	7.653 4,845 1,667	7.754 2,148 1.622 68	8,214 2,474 1,536 76
Beef steer-corn price ratio, Omaha 2/ Hog-corn price ratio, Omaha 2/	32.8 23.1	31.6 21.1	33.3 19.0	29.6 20.1	37.5 21.7	36.8 23.2	31.4 20.1	32.8 21.7	32.0 21.5	29.6 20.1
Market prices (\$fowt) Slaughter cattle Choice steers, Omaha 1,000-1,100 lb; Choice steers, Neb. Direct,	77.40	73.83	74.65	74.13	80.97	76.13	72.22	73.28	71.46	69.78
1,100–1,300 lb. Boning utility cowe, Słoux Falle Feeder cattle Medium no. 1, Oklahoma City	78.56 53. 60	74.28 50.31	75.36 44. 84	75.12 45.69	80.39 49.00	76.70 49.44	73.60 50 .28	74.59 49.61	73.11	71.14
600-700 (b.	92.15	92.74	85.57	85.23	93.78	96.33	92.96	92.58	91.23	88.11
Slaughter hogs Barrows & gilts, lowe, S. Minn. Feeder pigs	55.32	49.69	43.05	42.69	47.69	48 98	46.71	48.63	48.80	47.54
S. Mo. 40-50 lb. (per head)	51.48	39.84	31,71	32.44	43.88	38.65	36.69	36.13	39.78	42.22
Slaughter eheep & lambe Lambe, Choice, San Angelo Ewes, Good, San Angelo Feeder lambs	55.54 35 21	53.21 31.98	61.00 35.39	52.81 29.56	62.50 36.29	57.75 38.00	57.00 38.17	58.97 35.39	66.08 34.94	63.75 30.82
Choice. San Angelo	62.95	53.54	62.09	52.94	62.50	59.80	58.58	63.17	68.75	69. 96
Wholesale mest prices, Midwest Boxed beef cut—out value Canner & cutter cow beef Pork loins, 14–18 lb. 3/ Pork bellies, 12–14 lb. Hams, skinned, 17–20 lb.	123.21 99.96 117.52 53.80 84.87	118.31 99.42 108.39 47.79 75.68	116.73 93.85 101.41 30.39 67.42	115.51 90.85 98.98 29.13 78.58	127.19 95.90 111.16 39.86 63.09	120.52 98.66 122.28 36.24 63.59	114.48 101.69 113.40 44.51 64.94	116.73 98. 50 116.73 46.68 66.96	114.85 94.72 116.74 43.82 75.08	111.52 90.02 111.85 47.25 76.34
All fresh beef retail price 4/	262.48	271.05	266.87	287.75	278.90	274.03	274.99	273.00	270.84	273.36
Commercial slaughter (1,000 head) 5/ Cattle Steers Helfers Cows Bulls & stags Calves Sheep & lambs Hogs	33.241 16,587 10.090 5,920 644 1,789 5,654 85,138	32.690 16,728 9.725 5.623 614 1,436 5,722 88,169	32.873 17,135 9.236 5.848 653 1,371 5,493 94.888	2,884 1,433 802 565 64 114 470 8,792	2.775 1.504 766 452 53 85 411 7.145	3.013 1,811 868 473 61 94 478 7,507	2,864 1,494 844 468 58 93 409 7,177	2,941 1,564 820 495 62 98 432 7,637	2,870 1,477 816 517 60 97 426 7,946	2,797 1,402 805 531 59 97 406 8,039
Commercial production (mil. lb.) Beef Veal Lamb & mutton Pork	22.634 316 358 15,300	22,800 296 358 15,948	22,968 299 343 17,185	2,015 24 29 1,588	1,857 20 27 1,309	2,051 22 31 1,377	1,983 22 26 1,311	2.065 23 27 1,389	2.027 22 27 1,438	1,980 22 25 1,473
		Annual			1992			1	993	
	1990	1991	1992	1[lii .	IV	ī	lı	III	IV
Cattle on feed (13 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disappearance (1,000 head)	9,943 24.803 22.526 1.393	10,827 23,208 22,383 1,517	10.135 24.246 22,061 1,436	9.693 5.273 5.675 444	8.847 6,107 5.766 268	8,920 7,458 5,179 320	10.884 5.321 5,314 439	10,452 5,284 5,783 460	9.493 6,301 5,950	9,691
Hogs & Pigs (10 States) 6/ Inventory (1,000 head) 1/ Breeding (1,000 head) 1/ Market (1,000 head) 1/ Farrowings (1,000 head) Pig crop (1,000 head)	42.200 5,275 36,925 8,960 70,589	42.900 5.257 37,643 9.516 75,330	45,735 5,610 40,125 10,202 82,497	44.800 5,555 39.245 2,663 21,570	47.255 5,845 41.410 2,501 20.395	49,175 5,840 43,335 2,398 19,351	47,140 5,735 41,495 2,210 18,093	45,580 5,520 40,0 6 0 2,471 20,065	46,420 5,630 40,790 2,302 18,610	46,920 5,560 41,360 2,331

^{1/} Beginning of period. 2/ Sushels of corn equal in value to 100 pounds live weight. 3/ Prior to 1984, 8-14 lb.; 1984 & 1985, 14-17 lb: beginning 1986, 14-18 lb. 4/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8. 5/ Classes estimated. 6/ Quarters are Dec. of preceding year-Feb. (1), Mar.-May (II), June-Aug. (III). & Sept-Nov. (IV). May not add to NASS totals due to rounding. -- = not available. *Intentions.

Information contact Polly Cochran (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization 1,2

		Area					Feed	Other				
	Set aside 3/	Planted	Harves- ted	Yield	Produc- tion	Total supply 4/	and resid- ual	domes- tic use	Ex- ports	Total	"Ending stocks	Farm price 5/
		Mil. acres		Bu/acre				MIL bu.				\$/bu.
Wheat 1988/89 1989/90 1990/91 1991/92* 1992/93* 1993/94*	22.5 9.6 7.5 15.9 7.3 6.0	65.5 78.6 77.2 69.9 72.3 72.1	53.2 62.2 69.3 57.7 62.4 63.0	34.1 32.7 39.5 34.3 39.4 38.4	1,812 2,037 2,736 1,981 2,459 2,422	3.096 2.762 3.309 2.888 3.001 3.036	150 144 499 254 196 300	820 849 875 883 922 929	1.415 1.232 1.068 1.280 1.354 1.175	2,394 2,225 2,443 2,418 2,472 2,394	702 536 866 472 529 642	3.72 3.72 2.81 3.00 3.24 3.00–3.20
Aice		Mil. acres		Lb/acre			ł.	All. cwt (rough)	equiv.)			Slowt
1988/89 1989/90 1990/91 1991/92 * 1992/93 * 1993/94 *	1.09 1.18 1.02 0.9 0.4 0.6	2.93 2.73 2.90 2.88 3.17 3.02	2.90 2.89 2.62 2.78 3.13 2.94	5,514 5,749 5,529 5,674 6,722 6,511	159.9 154.5 1 56.1 15 7 .5 179.1 162.0	195.1 185.6 187.2 187.3 212.6 208.2		6/ 82.5 6/ 82.1 6/ 91.7 6/ 93.7 6/ 98.1 6/ 99.5	85.9 77.2 70.9 68.4 77.0 85.0	159.3 162.7 159.9 173.2 184.5	26.7 25.4 24.6 27.4 39.4 23.7	6.83 7.35 6.70 7.58 5.90 8.00~9.50
Com		Mil. acres		Bu/acre				MII. bu.				\$/bu.
1986/89 1989/90 1990/91 1991/92* 1992/93* 1993/94*	20.6 10.8 10.7 7.4 5.3 9.0	87.7 72.2 74.2 76.0 79.3 73.7	58.3 64.7 67.0 68.8 72.1 63.1	84.6 110.3 118.5 108.8 131.4 103.1	4,929 7,525 7,934 7,475 9,479 6,503	9,191 9,458 9,282 9,016 10,585 8,636	3,941 4,389 4,663 4,878 5,288 4,850	1.293 1.356 1.373 1.454 1.510 1.550	2,026 2,368 1,725 1,584 1,675 1,350	7.260. 8.113 7.761 7.916 8.473 7.750	1,930 1,344 1,521 1,100 2,113 888	2.54 2.36 2.28 2.37 2.07 2.46–2.75
		Mil. acres		Bu/acre				Mil. bu.				\$/bu.
Sorghum 1988/89 1988/90 1990/91 1991/92* 1992/93* 1993/94*	3.9 3.3 3.3 2.5 2.0 2.0	10.3 12.6 10.5 11.1 13.3 10.7	9.0 11.1 9.1 9.9 12.2 9.7	63.8 55.4 83.1 59.3 72.8 63.6	577 615 573 585 884 620	1,239 1,055 793 727 937 785	466 517 410 374 480 510	22 15 9 6 8	311 303 232 292 275 200	800 .835 851 674 762 718	440 220 143 53 175 78	2 27 2.10 2.12 2.25 1.89 2.25-2.55
Durlan		Mil. acres		Bu/acre				Mil. bu.				\$ /bu.
Barley 1988/89 1989/80 1990/91 1991/92* 1992/93*	2,8 2,3 2,9 2,9 2,3 2,2	9.8 9.1 8.2 8.9 7.8 7.9	7.6 6.3 7.5 8.4 7.3 7.1	38.0 48.6 56.1 55.2 62.5 58.9	290 404 422 464 458 418	622 614 596 624 598 602	171 193 205 230 200 235	175 175 178 171 167 165	79 84 81 94 80 85	425 453 461 496 447 485	198 181 135 129 151 117	2.80 2.42 2.14 2.10 2.05 1.95-2.05
0.44		Mii. acres		8u./acre				Mif. bu.				\$/bu
Oats 1988/89 1989/90 1990/91 1991/92* 1992/93* 1993/94*	0.3 0.4 0.2 0.6 0.7 0.8	13.9 12.1 10.4 8.7 8.0 7.8	5.5 6.9 6.8 4.5 3.8	39 3 54.3 60.1 50.7 65.6 54.6	218 374 358 243 295 208	392 538 578 489 477 401	194 266 286 235 233 180	100 115 120 125 125 125	1 1 2 6 5	294 381 407 362 364 310	98 157 171 128 113	2.81 1.49 1.14 1.20 1.32 1.35-1.45
Coubone		Mil. acres		Bu/acre				Mil. bu.				\$/bu.
Soybeans 1986/89 1989/90 1990/91 1991/92* 1992/93* 1993/94*	0 0 0	58.8 60.8 57.8 59.2 59.3 59.5	57.4 59.5 56.5 58.0 58.2 56.0	27.0 32.3 34.1 34.2 37.6 32.7	1.549 1.924 1.926 1.987 2.188 1.634	1.855 2.109 2.168 2,319 2,468 2.131	7/ 88 7/ 101 7/ 95 7/ 103 7/ 122 7/, 111	1,058 1,148 1,187 1,254 1,279 1,225	527 623 657 684 770 625	1.673 1.870 1.839 2.041 2.176 1.968	182 239 329 278 292 165	7.42 5.89 5.74 5.58 5.60 6.00-7.00
Scybean oil								Mil. lbs				8/ Cta./lb.
1988/89 1989/90 1990/91 1991/92* 1992/83* 1993/94*		=	=	duridi	11.737 13.004 13.408 14.345 13.779 13.775	13,967 14,741 14,730 16,132 16,020 15,365	<u> </u>	10,591 12,083 12,164 12,245 12,949 13,000	1.681 1.353 780 1.648 1.500 1,350	12,252 13,436 12,944 13,893 14,449 14,350	1,715 1,305 1,786 2,239 1,571 1,015	21.10 22.30 21.00 19.10 21.40 24.0-27.5
Soybean meal								1,000 tons				9/ \$/tan
1988/89 1989/90 1990/81 1991/92* 1992/93* 1993/94*		ble.			24,943 27,719 28,325 29,831 30,364 29,146	25,100 27,900 28,688 30,183 30,689 29,450	-	19.657 22,263 22,934 23,008 24,160 24,250	5,270 6,319 5,469 6,945 6,325 4,900	24,927 27,582 28,403 29,953 30,485 29,150	173 318 285 230 204 300	252.4 186.5 181.4 189.2 194.0 185–220

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

		Area					Feed	Othe?				
	Set Aside 3/	Planted	Haryes- ted	Yīeid	Produc→ tion	Total supply 4/	rebiaer tau	tic use	Ex- ports	Total eau	Ending Stocks	Farm Price 5/
		Mil. acres		Lb./acre				Mil. balos				Cte./lb.
Cotton 10/ 1988/88 1989/90 1990/91 1991/92* 1992/93* 1993/94*	2.2 3.5 2.0 1.2 1.7	12.5 10.6 12.3 14.1 13.2 13.7	11.9 9.5 11.7 13.0 11.1 13.2	619 614 634 652 699 594	15.4 12.2 15.5 17.6 18.2 16.3	21.2 19.3 18.5 20.0 19.9 21.0	<u>-</u>	7.8 8.8 6.7 9.6 10.3 10.3	6.1 7.7 7.8 6.7 5.2 5.8	13.9 16.5 16.5 16.3 15.5 16.2		56.60 68.20 67.10 58.10 11/ 54.60

*December 9, 1993 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat, beriey, & cats, August 1 for cotton & rice, September 1 for scybeans, corn, & sorghum, October 1 for scybeans | 2/ Conversion lactors: Hectare (ha.) = 2.47; acres, 1 metric ton = 2204.622 pounds, 36.7437 bushels of wheat or scybeans, 39.3679 bushels of corn or sorghum, 45.9266 bushels of beriey, 68.8944 bushels of oats, 22.046 cWt of rice, & 4.59 480-pounds and of the corn, 3/ includes diversion, acreage reduction, 50-92, & 0-92 programs. 0/92 & 50/92 set-aside includes idled acreage a careage planted to minor plusedes, sessums, and crambe.

4/ Includes imports. 5/ Marketing-year weighted average price received by farmers. Does not include an allowance for loans outstanding & Government purchases. 6/ Residual included in domestic use. 7/ includes seed. 8/ Simple average of crude scybean oil, Decatur. 9/ Simple average of 48 percent, Decatur. 10/ Upland & extra long staple. Stocks estimates based on Census Bureau datar, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. 11/ Weighted average for August 1-April 1; not a projection for the marketing year. 12/ USDA is prohibited from publishing cotton Price projections. — = not available or not applicable.

Note: Set-aside data for 1993 are from June 15 signup report.

Information Contact Commodity Economics Division, Crops Branch (202) 219-0840.

Table 18.—Cash Prices, Selected U.S. Commodities

		Marketir	g year 1/		1992			1993		8.
	1988/89	1989/90	1990/91	1991/92	Oct	June	July	Aug	Sept	Oct
Wheat, No. 1 HRW, Kansas City (\$/bu.) 2/	4.17	4 22	2.94	3.77	3.60	3.33	3.38	3.34	3.37	3.52
Wheat, DNS, Minneapolls (\$/bu) 3/ Rice, S.W. La. (\$/cwt) 4/	4.36 14.85	4.1 6 15.55	3.06 15.25	3 82 16.48	3.85 15.50	3.98 11.75	4.80 12.38	4.88 12.38	4 90 12.7 5	5.1 7 15.20
Corn. no. 2 yellow, 30 day, Chicago (\$/bu.)	2.68	2.54	2.41	2.52	2.06	2.20	2.38	2.37	2 34	2 43
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	4.17	4.21	4.08	4.36	3.80	3.58	3.99	4.01	3.89	4.03
Barley, feed, Dufuth (\$/bu.) 5/	2 32	2.20	2,13	2.17	2.11	1.99	1 96	1.89	1,89	2.01
Barley, malting, Minneapolia (\$/bu,)	4.11	3.28	2.42	2.38	2.39	2 30	2.27	2.27	2.16	2.26
U.S. price. SLM, 1-1/16 in_(cta./ib.) 6/	57.7	69.8	74.8	56.7	49.8	54.4	64.4	53.0	54.0	54.6
Northern Europe prices index (cts./b.) 7/ U.S. M 1-3/32 in. (cts/lb.) 8/	86.4 69.2	82.3 83.6	82.9 88.2	62.9 66.3	52.9 58.0	68.5 63 0	58.0 62.9	65.5 57 .3	65.1 57.0	54.7 56.9
Soybeans, no. 1 yellow, 30 day. Chicago (\$/bu.)	7.41	5.86	5.76	5.75	5.33	5.99	6.99	6.56	6 32	6.06
Soybean oil, crude, Decatur (cts./lb.)	21.10	22.30	21.00	19.10	18.31	21.30	23.96	23.33	23.51	22.90
Soybean meal, 48% protein. Decatur (\$/ton) 9/	252.40	186.50	181.40	189.20	180.80	223.00	229.90	219.10	199.9	194.50

1/ Beginning June 1 for wheat & barley. Aug. 1 for rice & Cotton; Sept. 1 for corn, sorghum & soybeans; Oct. 1 for soymeal & oil. 2/ Ordinary protein. 3/ 14% protein, 4/ Long grain, milled basis. 5/ Beginning Mar. 1987 reporting point changed from Minneapolis to Duluth. 5/ Average spot market. 7/ Liverpool Cotlook "A" Index: average of five lowest prices of 13 selected growths. 8/ Memphis territory growths. 9/ Note change to 48% protein.

Information contacts: Wheat, rice, & feed grains, Jenny Gonzales (202) 219-0840; Cotton, Lee Mayer (202) 219-0840; Soybeans, Mark Ash (202) 219-0840.

Table 19.—Farm Programs, Price Supports, Participation & Payment Rates

				F	ayment rates				
		Basic	Findley of announced		Paid lan	d diversion	Effective		Particl-
	Target price	ioan rate	loan rate 1/	Total deficiency	Mandatory	Optional	base acres 2/	Program 3/	pation rate 4/
148				\$/bu.			Mil. Ecres	Percent of base	Percent of base
Wheat 1988/89 1988/90 1990/91 5/ 1991/92 1962/93 1993/94 1994/95	4.23 4.10 4.00 4.00 4.00 4.00	2.78 2.58 2.44 2.52 2.58 2.88	2.21 2.06 1.95 2.04 2.21 2.45	0.69 0.32 1.28 *1.35 **0.61		40 00000 40 00000 40 00000 40 00000 40 00000	84.8 82.3 80.5 79.2 78.9 78.5	27.5/0/0 10/0/0 6/ 5/0/0 15/0/0 5/0/0 0/0/0	86 78 83 85 83 87
Rice				\$/cwt					
1968/89 1989/90 1990/91 6/ 1981/92 1982/93 1993/94 1994/95	11.15 10.80 10.71 10.71 10.71 10.71	6.63 8.50 6.50 6.50 8.50	7/ 6.50 7/ 6.00 7/ 5.40 7/ 6.65	4.31 3.58 4.16 3.07 			4.2 4.2 4.2 4.2 4.1 4.1	25/0/0 25/0/0 20/0/0 5/0/0 0/0/0 5/0/0 0/0/0	94 94 95 95 96
Corn				\$/bu.					
1988/89 1989/90 1990/91 6/ 1991/92 1992/93 1993/94 1994/95	2 93 2.84 2.76 2.76 2.76 2.75	2.21 2.06 1.96 1.89 2.01 1.99	1,77 1,85 1,57 1,62 1,72 1,72	0.36 0.58 0.51 0.41 0.73		1.75	82.9 82.7 82.6 82.7 82.1 81.9	20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 10/0/0 0/0/0	87 79 78 77 76 81
Sorohum				\$/bu.					
Sorghum 1988/89 1988/90 1990/91 5/ 1991/92 1992/93 1893/94 1994/95	2.78 2.70 2.61 2.61 2.61 2.61	2.10 1.96 1.86 1.80 1.91 1.89	1:68 1:57 1:49 1:54 1:63	0.48 0.66 0.58 0.37 **0.70		1.65	16.8 16.2 15,4 13.5 13.6	20/0/10 10/0/0 10/0/0 7.5/0/8 5/0/0 5/0/0 0/0/0	82 71 70 77 78 81
Berley				\$/bu.					
1986/89 1989/90 1990/91 5/ 1891/92 1992/93 1993/94 1894/95	2 51 2 44 2 36 2 36 2 36 2 36	1.80 1.68 1,60 1.54 1.64 1.62	1.44 1.34 1.28 1.32 1.40	0.00 0.00 0.20 0.62 **0.56		1.40	12.5 12.3 11.9 11.5 11.1	20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 0/0/0 0/0/0	79 67 68 76 75 82
Oats				\$/bu.					
1988/88 1989/90 1996/91 5/ 1991/92 1992/93 1993/94 1994/95	1.55 1.50 1.45 1.45 1.45 1.45	1.14 1.06 1.01 0.97 1.03 1.02	0.91 0.85 0.81 0.83 0.88	0.00 0.00 0.32 0.35 0.17			7.9 7.8 7.5 7.3 7.2 7.1	5/0/0 5/0/0 5/0/0 6/0/0 0/0/0 0/0/0	30 18 09 38 40 46
Soybeans 9/				\$/bu.					
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94 1994/95			4.77 4.53 4.50 5.02 5.02 4.92						
Upland cotton				Ctm./lb.					
1988/89 1986/90 1990/91 5/ 1991/92 12/ 1992/93 1993/94 1994/95	75.9 73.4 72.9 72.9 72.9 72.9 72.9	51 80 50.00 50.27 50.77 52.35 52.35 50.00	11/ 51.80 11/ 50.00 11/ 50.27 11/ 47.23 11/ —	19.4 13.1 7.3 10.1 20.3			14.5 14.6 14.4 14.8 14.9 15.1	12 5/0/0 25/0/0 12:5/0/0 5/0/0 10/0/0 7:5/0/0	89 86 86 84 89

If There are no Findley loan rates for rice or cotton. See footnotes 7/8 11/. 2/ National effective crop acreage base as determined by ASCS. Net of CRP, 3/ Program requirements for participating producers (mandatory acreage reduction program/mandatory paid land diversion/optional paid land diversion). Acres idled must be devoted to a conserving use to receive program benefits. 4/ Percentage of effective base acres enrolled in acreage reduction programs. 5/ Payments & Joans were reduced by 1.4 percent in 1990/91 due to Gramm-Rudman-Hollings. Budget Reconciliation Act reductions to deficiency payments as severe also in effect in that year. Data do not include these reductions. 6/ Under 1990 modified contracts, Data producers plant up to 105 percent of their wheat bees acres. For every acre planted above 95 percent of base, the ecrasge used to compute deficiency payments was cut by 1 acres. 7/ A marketing toan has been in effect for rice since 1985/85. Loans may be repeid at the lower of: a) the ioan rate of b) the adjusted world market price (announced weekly). However, loans cannot be repeid at less than a specified traction of the loan rate. Data refer to market-year everage loan repayment rates. 8/ The sorghum, oats, & barley programs are the same as for corn except as indicated. 9/ There are no target prices, base ecres, acreage reduction programs, or deficiency payments rates for software the same as for corn except as indicated. 9/ There are no target prices, base ecres, acreage reduction programs, or deficiency payments rates for software the same as for corn except as indicated. 9/ There are no target prices, base ecres, acreage reduction programs, or deficiency payments rates for software prices, but has a for corn except as indicated. 9/ There are no target prices, base ecres, acreage reduction programs, or deficiency payments rates for software payments rates for software payments rates. Data refer to annual average loan repayment rates. 12/ A marketing certificate program was implemented on Aug. 1, 19

^{*} For wheat, the 1991/92 rate is the total deliciency payment rate for the "regular" program. For the winter wheat option, the rate is \$1.25.

** For wheat, corn, explum, barley, and cate, regular deficiency payment rate based on the 5-month price. For rice and upland cotton, total deficiency payment rate.

** Estimated total deficiency payment rate. Minimum guaranteed payment rate for 0/92 (wheat & feed grains) & 50/92 (rice and upland cotton) programs. Sign-up for 1993 programs was March 1-April 30, 1993.

Note: 1993 effective base acres and participation rates are from June 15 signup report,

Information contact: Commodity Economics Division, Crops Branch (202) 219-0840.

Table 20.—Fruit

	1984	1985	1986	1987	1988	1989	1990	1991	1992 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/	10.832 22.6	10,525 21.5	11.058 24 2	11,993 23.9	12,7 6 1 25.4	13,186 23.5	10,860 21.4	11,285 19.1	12,45 9 24.3
Noncitrus 3/ Production (1,000 tons) Per capita consumpt. (lbs.) 2/	14,301 66 2	14,191 85.1	13.874 68.7	16,011 73,4	15,893 71.7	16.365 73.0	15,657 70.8	15,750 70,8	17,142 74.4
					1993				
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/	12.33 16.00	10. 66 16. 0 0	11.33 16.08	11.50 16 28	11.50 18.28	11.50	12.78	13.34	12.33 12.07
Grower prices Oranges (\$/box) 8/ Grapefruit (\$/box) 8/	2.51 2.58	2.70 1.69	3.32 1.94	3.58 1.44	3.90 1.45	4.73 3.53	5.44 2 44	10.52 3.51	11.87 8.13
Stocks, ending Fresh appies (mil. lbs.) Fresh pears (mil. lbs.) Frozen fruits (mil. lbs.)	2,769.3 128.1 842.1	2,011.1 81.7 744.8	1,341.5 50.8 690.3	895.1 23.3 661,6	488.9 1.6 710.3	201.2 7.1 831.3	28.4 146.5 939.8	3,256.8 556.8 997.9	5.423.4 552.1 1,179.0
Frozen orange juice (mil. lbs.)	1,289.4	1.283.7	1,440.9	1,462.3	1.351.8	1,147.0	1.029.6	875.7	817.2

^{1/ 1992} indicated 1991/92 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, carton tray pack, 125's. 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on–tree returns. P = preliminary. — = not available.

Information contact: Wynnice Napper (202) 219-0884.

Table 21.—Vegetables

IGDIO ET. TO GOTAL										
					Cale	ndar year				
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 P
Production Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/ 3/ Processed (tons) 2/ 3/ Mushrooms (1,000 lbs.) 4/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt) Dry edible beans (1,000 cwt)	403.509 185.782 10.886.350 561.531 333,726 12,983 15,520	456,334 201,817 12,725,880 595,681 362,039 12,902 21,070	453,030 203,549 12,474,040 587,956 406,609 14,573 22,298	448.629 203.165 12.273.200 614.393 361,743 12,358 22,980	478.381 220,539 12,892,100 631.819 389,320 11,611 26,031	468,779 228,397 12.019,110 667,759 356,438 10,945 19,253	542.437 239,281 15.157,790 714.892 370.444 11.358 23.729	561,704 239,104 16,130,020 749,151 402,110 12,594 32,379	584.582 229,506 16,753.820 746,832 417,822 11,203 33,765	534.951 236.140 14.940.550 776.357 425,367 11,760 22,047
		1992					1993			
21. 1. 1. 1. 2	Sept	Oct	Mar	Apr	May	Jun	July	Aug	Sept	Oct
Shipments (\$,000 cwt) Fresh Leberg lettuce Tomatoes, all Dry-bulb onlone Other 5/	15,768 4,393 2,108 3,482 5,805	16,948 4,760 2,570 3,137 6,481	24.099 5.054 3.885 3.390 11.770	18.956 3.570 2.865 2.448 10.073	25,574 5.031 2.540 2,988 15,014	36.353 5.316 4.229 3.720 23.088	19.416 3.715 2.742 2,877 10,082	16.292 3.971 2.183 2.793 7,345	18,424 4,971 2,944 3,639 6,870	15.281 4,110 2,885 2,859 5,427
Potatoes, all Sweetpotatoes	11,132 276	12.474 419	18,545 468	18,489 334	17.948 218	14,284 244	9.393 178	8.622 154	13.504 34 3	11,563 244

^{1/} includes fresh production of asparagus, broccoli, carrots, cauliflower, celery, sweet cors, lettuce, honeydews, onlons, & tomatoes, 2/ includes processing production of snap beans, sweet cors, green peas, tomatoes, cucumbers (for pickles), asparagus, broccoli, carrots, & cauliflower, 3/ Asparagus & cucumber estimates were not available for 1982 & 1983. 4/ Fresh & processing agaricus mushrooms only. Excludes specialty varieties. Crop year July 1 – June 30. 5/ includes snap beans, broccoli, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, beli peppers, squash, cantaloupes, honeydews, & watermelons. p = preliminary.

Information contacts: Gary Lucier or John Love (202) 219-0884.

Table 22.—Other Commodities

			Annual				1992		1993	
	1988	1989	1990	1991	1992	July-Sept	Oct-Dec	Jan-Mer	Apr-June	July-Sept
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/	7.087 8,188 3,132	6,841 8,340 2,947	6.334 8.661 2,729	7,133 8,704 3,039	7,501 8,920 3,220	722 2,409 1,451	3.919 2.303 3.225	2,351 2,067 3,904	825 2.201 2.957	735 2.491 1.599
Coffee Composite green price N.Y. (cts./lb.)	119.59	95.17	76.93	70.09	55.30	48.36	61.94	60.48	55.07	69.47
imports, green bean equiv. (mil. lbs.) 2/	2,072	2.685	2,715	2,553	2,989	704	705	757	596	57 5
		Annual		1992				1993		
	1990	1991	1992	Aug	Mar	Apr	May	enut	July	Aug
Tobacco Prices at auctions 3/ Flue-cured (\$/lb.) Burley (\$/lb.)	187.3 175.3	172.3 178.8	Name and American	165.5	173.0	Ξ	-		158.0	160.0
Domestic consumption 4/ Cigarettes (bil.) Large cigars (mil.)	523.1 2,343.5	51 6 .3 2.231.9	509.5 2,217.1	43. 7 185.1	51.4 178.8	37.8 159.0	39.4 176.2	41.0 227.7	37.5 164.5	39.2 211.6

^{1/ 1,000} short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee, 3/ Crop year July-June for flus-cured. Oct.—Sept, for buriey, 4/ Taxable removals. — = not available.

Information contacts: Sugar, Peter Buzzanell (202) 219-0886. Coffee, Fred Gray (202) 219-0888, Tobacco, Verner Grise (202) 219-0890.

World Agriculture

Table 23.—World Supply & Utilization of Major Crops, Livestock & Products

	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92 P	1992/93 F
		<u></u>		Million units			
Wheat Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	227.9	219.7	217.4	225.8	231.4	222.3	222.4
	524.1	496.0	495.0	533.0	588.1	542.3	560.6
	90.7	112.1	102.9	102.0	101.6	108.9	109.4
	515.7	525.0	524.9	532.2	563.7	559.0	546.0
	179.1	150.1	120.2	121.0	145.4	128.7	143.3
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	336.0	323.3	323.2	320.8	314.2	317.9	317.6
	822.4	784.2	721.1	790.9	820.9	803.5	856.6
	82.9	88.3	95.2	103.8	88.1	93.5	87.7
	796.5	807.2	785.0	814.1	808.7	809.3	833.5
	235.2	215.0	151.0	127.9	140.2	134.4	157.5
Rice, milled Area (hectares) Production (metric tons) Exporte (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	145.1	141.7	145.5	146.6	146.7	145.7	145.2
	316.7	314.5	330.1	343.1	350.7	348.3	351.3
	12.9	11.2	13.9	11.7	12.0	14.0	14.4
	320.8	319.9	327.7	336.4	345.8	352.9	354. 6
	50.9	45.5	47.8	54.5	59.4	54.8	51.5
Total grains Area (nectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	709.0	684.7	686.1	693 2	692.3	685.9	685.2
	1,663.2	1,594.7	1,546.2	1,687.0	1,75 9 .7	1.694.1	1,768.5
	186.5	211.6	212.0	217.5	201.7	215.4	211.5
	1,633.0	1,852.1	1,637.6	1,682.7	1,718.2	1,721.2	1,7 3 4.1
	465.2	410.6	319.0	303.4	345.0	217.9	352.3
Oilseeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	161.8 194.9 37.7 23.3	168.4 210.5 39.5 24.0	164.5 201.6 31.5 22.1	171.8 212.5 35.6 23.7	176.7 215.9 33.3 23.4	184.2 223.5 37.7 21.7	184.1 226.6 37.8 23.5
Meals Production (metric tons) Exports (metric tons)	110.7	115.4	111.1	117.0	119.3	124.3	124. 9
	36 7	35.8	37.4	39.9	40.7	43.1	41.7
Oils Production (metric tons) Exports (metric tons)	50.4	53.3	53.3	57.1	58.2	80.3	60.8
	16.9	17.5	18.1	20.4	20.6	20.8	20.5
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	29.2	30.8	33.7	31.5	33.1	34.7	32.7
	70.6	81.1	84.4	79.8	87.0	96 D	82.5
	33.4	29.9	33.1	31.3	29.7	28.3	24.7
	82.8	84.2	85.3	86.6	85.5	84.4	85.8
	35.7	32.8	31.8	26.2	28.5	40.8	38.6
	1987	1988	1989	1990	1991	1992	1993 F
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	112.8	114.2	116.3	117.7	118.1	118.9	120.8
	110.8	112.8	114.2	115.8	116.5	117.6	119.5
	6.9	7.0	7.1	7.4	7.0	6.6	6 9
Poultry 5/ Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	32.0 31.4 1.7	33.1 32.6 1.7	35.0 34.3 1.9	36.8 36.2 2.2	39 38.5 2.3	40.5 39.9 2.6	42.0 41.4 2.8
Dairy Milk production (metric tons)	425.7	428 9	434.7	442.0	429.4	415.0	408.2

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data, 1987 data correspond with 1986/87, etc. 5/ Poultry excludes the Peoples Republic of China before 1986. P = preliminary. F = forecast.

Information contacts: Crops, Carol Whitton (202) 219-0824; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 24.—Prices of Principal U.S. Agricultural Trade Products

										_
		Annual		1992				1993		
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Export commodities										
Wheat, f.o.b. vessel, Gulf ports (\$/bu.)	3.72	3.52	4.13	3.85	3.70	3.31	3.50	3.56	3.58	3.72
Corn, f.o.b. vessel, Gulf ports (\$\bu.) Grain sorghum, f.o.b. vessel,	2.79	2.75	2.66	2.42	2.51	2.37	2.64	2.61	2.59	2.71
Gulf ports (\$/bu.)	2.65	2.69	2.63	2.33	2.42	2.30	2.60	2.58	2.52	2.57
Soybeans, f.o.b. vessel, Gulf ports (\$/bu.)	6.24	6.05	6.01	5.67	6.26	6.27	7.32	7.01	8.69	6.40
Soybean oil, Decatur (cts./lb.)	22.75	20:14	19.16	18.31	21.26	21.21	23.96	23.34	23.51	22.90
Soybean meal, Decatur (\$/ton)	169.37	172.90	177.79	180.63	193.74	193.41	229,44	219.06	202.13	195.43
Soybean meal, Decard (short)	109.37	172.80	177.79	100.00	193.74	193.41	228,44	218.00	202.13	185.43
Cotton, 7-market avg. spot (cts./lb.)	71.25	69.69	53.90	49.47	56.36	54.38	54.35	53.04	54.01	54.57
Tobacco, avg. price at auction (cts./lb.)	169.61	179.23	172.58	181.93	157.44	157.44	158.01	159.51	173.08	174.92
Rice, f.o.b. mill, Houston (\$/cwt)	15.52	16,46	16.80	16,50	14.18	13.35	13.50	13.50	13,50	16.13
nedible tallow, Chicago (cts./tb.)	13.54	13.26	14.37	15.73	15.00	15.11	14.95	14.25	14.59	14.68
invalues and principle (eroma)	10.01	10.20	14.07	10.70					, ,,,,,	, ,,,,,
Import commodities										
Coffee, N.Y. spot (\$/lb.)	0.81	0.71	0.50	0.49	0.53	0.52	0.61	0.63	0.68	0.66
Rubber, N.Y. spot (cts./lb.)	46.28	45.73	46.25	47.83	43.78	43.78	43.30	43 85	44.54	44,23
Cocoa beans, N.Y. (\$//b.)	0.55	0.52	0.47	0.46	0.42	0.41	0.45	0.46	0.53	0.53
DOUGE CORITO, 14. 1 . (WILL.)	40.00	V. JE	U.47	9.40	3.42	0.91	9.40	3.70	3.00	4,00

Information contact: Mary Teymourian (202) 219-0824.

Table 25.—Indexes of Real Trade-Weighted Dollar Exchange Rates $^{1/}$

	1992						1993				
	Dec	Jan	Feb	Mar	Apr	May P	June P	July P	Aug P	Sept P	Oct P
						1985 = 1	00				
Total U.S. trade 2/	65.8	67.3	68.4	68 3	6 6 1	86 9	66.3	68.2	68.2	67.0	67.9
Agricultural trade	-						***				00.4
U.S. markets U.S. competitors	77.3 77.4	78.2 78.3	76.4 78.6	78.3 79.1	77.0 78.4	77.3 78.9	75.8 78.7	76.8 78.8	72.7 79.1	69.8 79.0	69.1 78.0
Wheat			70.0	70.1		70.0	10.7	,00		10.0	
U.S. markets	95.9	97.3	98.1	99.8	98.8	99.7	93.7	94.4	87.2	86.7	74.7
U.S. competitors Soybeans	73.3	74 1	73.7	73 0	72 6	72.9	74.9	75.7	76.7	77.0	77.1
U.S. markets	64.2	65.6	65.9	65.5	83.9	64.3	63.3	64.7	62.0	61,6	61.7
U.S. competitors	53.0	53.3	53.7	53.9	53.8	64.0	50.4	50.2	50.3	51.0	51.8
Corn											
U.S. markets	68.9	69. 6	69.3	68.6	67,1	67.1	66.5	67.3	62.0	61.6	61.0
U.S. competitors Cotton	57.2	57 5	57.7	57.8	56.3	56 4	57.8	58.9	59 2	57.9	58.3
U.S. markets	73.4	74 1	74.1	73.6	72.4	72.6	71 3	72.0	57.8	49.6	53.9
U.S. competitors	108.4	110.5	110.2	110.4	110.0	110.3	104.9	105.1	104.8	104.9	97.8

1/ Real indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = preliminary.

Information contact: Tim Baxter (202) 219-0718.

Table 26:—Trade Balance

					Fiscal year 1	1			Sept
	1987	1988	1989	1990	1991	1992	1993	1994 F	1993
					\$ million				
Exports Agricultural Nonagricultural Total 2/	27.876 202,911 230,787	35.316 258,656 293,972	39,590 301,289 340,859	40,220 32 6 ,059 366,279	37,609 356,682 394,291	42,430 383,517 425,947	42,590 390,770 433,380	42,500	3,220 32,700 35,920
Imports Agricultural Nonagricultural _ Total 3/	20,650 367,374 388,024	21,014 409,138 430,152	21,47 6 441,075 462,551	22.560 458,101 480,661	22,588 463,720 466,308	24,323 488,556 512,879	24,454 537,584 562,038	24,500	1,939 48,534 50,473
Trade balance Agricultural Nonagricultural Total	7,226 -164,463 -157,237	14,302 -150,482 -136,180	18,114 -139,806 -121,692	17,560 -132,042 -114,382	15,021 -107,038 -92,017	18,107 -105.039 -86,932	18,136 -146,814 -128, 6 78	18,000	1,281 -15,834 -14,553

1/ Fiscal years begin October 1 & end September 30. Fiscal year 1993 began Oct. 1, 1992 & ended Sept. 30, 1993. 2/ Domestic exports including Department of Defense shipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast. — = not available.

Information contact: Joel Greene (202) 219-0822.

Table 27.—U.S. Agricultural Exports & Imports

		Fiscal yea	r*	Sept		Fiscal year*		Sept
	1992	1993	1994 F	1993	1992	1993	1994 F	1993
EXPORTS		1,000 ur	nits			\$ million		
Animals, live (no.) 1/ Meats & preps., excl. poultry (mt) Dairy products (mt) 1/ Poultry meats (mt) Fats, oils, & greases (mt)	1,476 1,107 174 794 1,392	1,107 1,160 211 986 1,362	2/ 1,000 1,000 1,400	74 99 22 93 90	567 3,236 641 915 498	358 3,349 762 1,031 519	900	24 286 71 93 32
Hides & skine incl. furskins Cattle hides, whole (no.) 1/ Mink pette (no.) 1/	20.803 3,160	19,784 3,119		1,695 76	1,336 1,106 52	1.288 1,062 56	=	107 89 2
Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	100,881 34,322 813 2,279 50,752 11,267 1,448	103,743 36,078 1,075 2,710 50,705 11,500 1,676	30,000 1,100 2,800 42,800 5/ 11,800	8,240 2,846 71 253 4,014 890 156	13,873 4.323 165 757 5,801 2,019 807	14,104 4,737 217 766 5,261 2,147 976	3/13,600 4/3,900 	1,137 357 16 66 435 177 86
Fruits, nots, & preps. (mt) Fruit juices incl.	3,505	3,398	_	261	3,514	3,409	3,700	314
froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	7,767 2,703	7,845 2,7 9 0	_	610 198	427 2,790	423 3, 220		33 252
Tobacco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt) 1/	246 1,494 6 12 492	231 1.125 533 337	1.300	10 54 24 41	1,568 2,183 650 154	1,443 1,526 648 106	1,300 1,700 700	64 74 46 13
Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	28.671 19,939 19,277 7,082 1,651 13 91	29.190 21,049 20,400 8.539 1.601 13	17,100	1.370 863 818 392 115	7,162 4,735 4,318 1,445 982 184 2,733	7,211 4,982 4,606 1,261 968 185 3,011	7.300 4.500	397 239 209 83 75 15 262
Total	142.175	145,171	130,000	10,512	42,430	42,590	42.500	3.220
IMPORTS								
Animais, live (no.) 1/ Meats & preps., excl. poultry (mt) Beet & veal (mt) Pork (mt)	2,830 1,134 813 263	3,461 1,128 793 276	780 280.	256 94 64 24	1,275 2,684 1,933 62 5	1,569 2,72 6 1,919 663	1,700 1,900 700	127 237 168 56
Dairy products (mt) 1/ Poultry & products 1/	232	231	_	20	81 6 132	860 137	900	73 11
Fats, oils, & greases (mt) Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt)	46 54	44 60		3	26 185 167	30 181 173		11 9
Grains & feeds (mt)	5,446	4,942	4,800	5 97	1.548	1,639	1,800	175
Fruits, nuts, & preps., excl. juices (mt) Bananas & plantains (mt) Fruit juices (1,000 hectoliters) 1/	5.883 3.626 26,049	6,089 3,737 27,053	6,000 3,700 22,000	414 313 2,694	2,919 1,083 871	2,988 1,083 640	1,000	190 89 63
Vegetables & Preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2,171 364 11 174 1,623	2,733 386 12 189 	250 220	164 20 1 8 	2,125 1,299 10 214 578 633	2,440 1,101 11 214 629 591	2,500 600 200	148 43 1 12 6 2 88
Oilseeds & products (mt) Oilseeds (mt) Protein meai (mt) Vegetable oils (mt)	2,330 429 629 1,273	2,484 373 618 1,492		234 27 74 132	1,124 135 84 904	1,204 130 89 985	1,400	93 10 10 73
Baverages excl. fruit juices (1.000 hectoliters) 1/ Coffee, tea, cocoa, spices (mt) Coffee, incl. products (mt) Cocoa beans & products (mt)	13,739 2,391 1,330 773	14,014 2,244 1,185 770	2,300 1.250 750	1,244 166 85 59	2,044 3,415 1,798 1,122	1,975 3,018 1,502 1,028	1,600 1,000	173 236 117 83
Rubber & ailfed gums (mt) Other	920	981	1,200	70	756 1,503	839 1,488	900	59 12 8
Total		-	_		24.323	24.454	24,500	1.939

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1993 began Oct. 1, 1992 & ended Sept. 30, 1993. 1/ Not included in total volume. 2/ Forecasts for footnoted items 2/-5/ are based on slightly different groups of commodities. Totals for fiscal 1993 forecast commodities were 2/ 903 million. 6/ \$14,332 million. 4/ \$4,954 million, includes flour. 5/ \$11,885 million. F = forecast. --- = not available.

Information contact: Joel Greene (202) 219-0822.

Table 28.—U.S. Agricultural Exports by Region

		Fiscal year*		Sept	Change f	rom year* e	arlier	Sept
Region & country	1992	1993	1994 F	1993	1992	1993	1994 F	1993
		\$ million				Percent		
WESTERN EUROPE European Community (EC-12) Belgium-Luxembourg France Germany Italy	7,740 7,193 461 618 1,091 684	7,499 7,022 482 613 1,146 568	7.500 7.000 — — —	400 357 26 35 66 28	6 6 -1 8 -4	-3 -2 5 -1 5	0	-35 -36 -57 -23 -37 -39
Netherlands United Kingdom Portugal Spain, Incl. Canary Islands.	1,812 882 240 951	1.801 916 223 "829		69 69 11 25	16 0 -4 11	-1 4 -7 -13		-43 3 -37 -58
Other Western Europe Switzerland	546 187	477 152	500	43 13	2 -4	-13 -19	5	-27 20
EASTERN EUROPE Poland Former Yugoslavia Romania	222 49 50 76	468 230 47 107	400	32 11 4 7	-27. 7 -32 -7	111 368 -8 42	-15 	-19 32 146 -65
Former Soviet Union	2,704	1,561	1,200	94	54	-42	-23	41
ASIA West Asia (Mideast) Turkay Iraq Israet, incl. Gaza & W. Bank Saudi Arabia	17,782 1,770 344 0 346 549	17,832 1,922 369 1 382 483	16,400 2,000 0 400 500	1,504 153 22 1 30 28	10 24 54 0 21	0 9 7 150 10 –16	-8 4 -0 5 8	9 -30 0 62 -53
South Asia Bangladesh India Pakistan China Japan	536 123 117 226 690 8,383	641 52 226 236 322 8,461	300 300 8, 900	67 6 8 46 11 718	43 84 24 5 3 8	20 -58 93 4 -53	 27 -7 6	52 -68 187 169 -47
Southeast Asia Indonesia Philippines	1,470 353 443	1,551 327 512	600	121 28 37	19 27 19	6 -7 16	17	6 30 -11
Other East Asia Taiwan Korea, Rep. Hong Kong	4,934 1,916 2,200 817	4,935 1,999 2,041 880	5.000 2,100 2,000 900	434 186 174 73	6 10 ,2 10	0 4 -7 8	1 5 -2 2	7 16 -4 12
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2.304 1.411 156 478 709 893 31 328	2,671 1,659 310 458 756 1,012 158 383	2,500 1,700 500 800 800	175 130 30 44 40 46 11	22 21 0 2 80 -30 343	16 18 98 -4 7 .13 413	-6 2 9 6 -21	-38 14 47 185 -40 -73 149 -93
LATIN AMERICA & CARIBBEAN Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	6.438 143 970 587 142 3,676 179 394	6,883 231 1,015 675 234 3,660 172 502	6,900 200 ————————————————————————————————	551 17 95 63 14 253 22 45	177 -47 -4 18 15 27 19 28	61 5 15 65 0 -4 27	0 -13 - 7 20	137 16 11 -10 -9 38 4
CANADA	4,812	5,220	5.200	417	9	8	0	2
OCEANIA	428	456	400	47	23	8	-12	17
TOTAL	42,430	42,590	42,500	3,220	13	σ	0	-5
Developed countries	21,968	22,337	22,400	1.610	9	2	$\boldsymbol{O}_{\mathrm{D}}$	-1,0
Developing countries	19.771	19.918	_	1,599	17	1	-	2
Other countries	691	335		11	3	-51	-	-47

[&]quot;Fiscal years begin Oct. 1 & end Sept. 30, Fiscal year 1993 began Oct. 1, 1992 & ended Sept. 30, 1993. F ≠ forecast. — = not available. Note: Adjusted for transshipments through Canada.

Information contact: Joel Greene (202) 219-0822,

Farm Income

Table 29.—Farm Income Statistics

						Calendar y	ear				
	1984	1985	1986	1987	1988	1989	1990	1991	1992 P	1993 F	1994 F
						\$ billion	1				
Farm receipts Crops (incl. net CCC loans) Livestock Farm related 1/	147.7	150.1	140.0	148.5	158.4	168.9	177.5	17 6 .5	178.8	180	172 to 180
	69.9	74.3	63.7	65.9	71.7	77.0	80.1	81.9	84.8	83	85 to 89
	72.9	69.8	71.6	76.0	79.4	84.1	89.8	86.8	86.4	90	87 to 91
	4.9	6.0	5.7	6.6	7.3	7.8	7.6	7 .8	7.6	7	7 to 9
Direct Government payments Cash payments Value of PIK commodities	8.4	7.7	11.8	16.7	14.5	10.9	9.3	8.2	9.2	11	8 to 12
	4.0	7.6	8.1	6.6	7.1	9.1	8.4	8.2	9.2	11	8 to 12
	4.5	0.1	3.7	10.1	7.4	1.7	0.9	0.0	0.0	0	9 to 1
3. Gross cash Income (1+2) 2/ 4. Nonmoney income 3/ 5. Value of Inventory change 6. Total gross farm income (3+4+5)	156.1	1 57. 9	152.8	165.1	172.9	179.8	186.8	184 7	187.9	191	190 to 198
	5.9	5.6	5.5	5.6	6.3	6.3	6.2	5.9	6.1	8	8 to 7
	6.0	-2.3	-2.2	-2.3	-3.4	4.8	3.4	-0.3	3.8	-3	2 to 8
	168.0	1 6 1.2	156.1	168.5	175.8	190.9	196.4	190.3	197.7	195	201 to 210
7. Cash expenses 4/	118.7	110.7	105.0	109.4	118.4	125.1	130.9	131.4	130.2	132	130 to 137
8. Total expenses	141.9	132.4	125.1	128.8	137.0	144.0	149.9	150.3	149.1	151	150 to 159
9. Net cash income (3-7)	37.4	47.1	47.8	55.8	54.5	54.7	55.9	53 3	57.7	59	55 to 62
19. Net farmincome (6-8)	26.1	28.8	31.0	39.7	38.8	46.9	46.5	40.0	48.6	44	47 to 54
Deflated (1987\$)	28.7	30.5	32.0	39.7	37.3	43.3	41.1	34.0	40.2	35	37 to 42

^{1/} Income from machine hire, custom work, sales of forest products. & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rantal value of farm dwallings. 4/ Excludes capital consumption, perquisites to hired labor, & farm household expenses. Total may not add because of rounding. P = preliminary. F = forecast.

Note: 1988-92 accounts (primarily expenses) have been revised to reflect improved methods for estimating farm income. Call contact for information.

Information contact: Robert McElroy (202) 219-0800.

Table 30.—Average Income to Farm Operator Households

			Ca	dendar year			Ţ
	1989	1990	1991	1892 P		1993 F	1994 F
			\$ per opere	tor household			
Farm income to household 1/	5.798	5,742	4,397	4,337	4,268	to 5.561	4.233 to 6,636
Self-employment farm income	4.723	4.973	2,283	2.829		n/a	n/a
Other farm income to household	1,073	768	2.114	2.010		n/a	n/a
lus: Total off-farm Income	26,223	33,265	31,638	35.731		34,954	36,457
non-farm businesses	19,467	24,778	23,551	27.022		n/a	n/a
Income from Interest, dividends,							
transfer payments, etc.	8.756	8.487	8,087	8,709		n/a	n/a
Equals: Farm operator household income	32,019	39,007	36.025	40,088	39,220	to 40,515	40.890 to 41.993

^{1/} Farm income to the household equals self-employment income plus amounts that operators pay themselves & family members to work on the farm, income from renting out acreage, & net income from a farm business other than the one being surveyed. Data for 1989-90 are based on surveys that did not fully account for small farms. Data for 1991 Include an additional 350,000 farms, many with gross sales under \$10,000 & negative net farm incomes. P = preliminary. F = forecasts, not available at this time.

Information contact: Janet Perry (202) 219-0807.

Table 31.—Balance Sheet of the U.S. Farming Sector.

					Calend	ar year 1/						
	1984	1985	1986	1987	1988	1989	1990	1991	1992 P	1993 F	1	994 F
1						\$ billion						
Assets Real estate Non-real estate Livestock & poultry Machinery & motor	661.8 195.2 49.5	586.2 186.5 46.3	542.3 182.1 47.8	578.9 193.7 58.0	595.5 205.6 62.2	615.7 214.1 66 2	628.2 220.2 70.9	623.2 219.1 68.1	633.1 228.4 71.3	648 230 71	230	to 870 to 240 to 76
vehicles Crops stored 2/ Purchased inputs Financial assets Total farm assets	85.0 26.1 2.0 32.6 857.0	82.9 22.9 1 2 33.3 772.7	81.5 16.3 2.1 34.5 724.4	80.0 17.5 3.1 35.1 772.8	81.2 23.3 3.5 35.4 801.1	85,1 23,4 2,6 36,8 829,7	85.4 22.8 2.8 38.3 848.4	85.8 22.0 2.6 40.6 842.2	85.6 24.1 3.9 43.4 861.5	86 25 3 45 878	24 2 45	to 89 to 28 to 4 to 49 to 905
Liabilities Real estate debt 3/ Non-real estate debt 4/ Total farm debt Total farm equity	106.7 87.1 193.8 663.3	100.1 77.5 177.6 595.1	90.4 66.6 157.0 567.5	82.4 62.0 144.4 628.2	77.6 61.7 139.4 661.6	75.4 81.8 137.2 692.6	74 1 63.2 137.4 710.9	74.6 64.3 138.9 703.3	75. 6 63.6 139.3 722.2	77 66 143 735	65 142	to 80 to 69 to 148 to 760
Coloredti			_			Percent						
Selected ratios Debt-to-assets Debt-to-equity Debt-to-net cash income	22.6 29.2 518	23.0 29.8 377	21.7 27 7 328	18.7 23.0 259	17.4 21 1 256	16.5 19.8 251	16.2 19.3 246	18.5 19.7 260	16.2 19.3 241	16 19 240	18	to 17 to 20 to 250

^{1/} As of Dec. 31, 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC, 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jim Ryan (202) 219-0798.

Table 32.—Cash Receipts From Farm Marketings, by State_

masta a		Livestock	& products				Crops 1/				Total 1/	
Region & State	1991	1992	Aug 1993	Sept 1993	1991	1992	Aug 1993	Sept 1993	1991	1992	Aug 1993	Sept 1993
NORTH ATLANTIC Maine New Hampshire Vermont Massachusette	292 63 370 129	301 65 389 135	27 5 30 11	26 5 30 11	192 79 64 356	213 79 63 356	25 8 3 36	20 12 4 53	484 142 434 485	513 144 452 491	52 13 33 47	46 17 34 64
Rhode Island	12	13	1	1	57	60	2	14	69	72	3	15
Connecticut	208	240	24	22	264	249	16	28	472	489	40	50
New York	1,793	1,914	150	147	1,081	1,032	108	142	2,874	2,948	258	289
New Jersey	193	192	18	16	465	465	57	40	658	657	73	56
Pennsylvania	2,405	2,554	202	216	997	1,064	94	100	3,402	3,618	296	318
NORTH CENTRAL Onio Indiana Illinois Michigan	1,681 1,917 2,353 1,288	1,580 1,821 2,202 1,325	141 181 198 101	138 158 195 121	2,484 2,583 5,181 1,922	2,587 2,684 5,431 1,962	148 165 383 124	343 503 694 169	4,165 4,500 7,534 3,210	4,167 4,505 7,634 3,286	289 346 581 225	481 661 889 290
Wisconsin	4,191	4,313	333	329	1, 22 5	1,186	104	132	5,417	5,499	437	461
Minnesota	3,593	3,622	309	299	3,786	3,460	189	257	7,378	7,082	498	556
Iowa	5,720	5,614	519	501	4,529	4,716	387	386	10,250	10,330	908	887
Missouri	2,268	2,188	205	208	1,642	1,935	110	191	3,911	4,123	315	399
North Dakota	670	755	47	53	1,877	2,339	244	291	2,547	3,094	291	344
South Dakota	2,125	1,966	140	165	1,188	1,263	103	171	3,314	3,229	243	336
Nebraska	5,933	5,674	638	496	3,111	3,109	148	197	9,044	8,783	786	693
Kansas	4,800	4,558	384	372	2,276	2,442	175	209	7,076	7,000	559	581
SOUTHERN Delaware Maryland Virginia West Virginia	438 788 1,363 253	451 804 1,353 267	41 72 125 22	36 70 147 26	184 564 753 71	184 587 781 75	22 36 93 8	22 69 110 12	522 1,352 2,115 324	636 1, 39 1 2,134 343	63 108 218 30	58 139 257 38
North Carolina	2,617	2,795	258	269	2,339	2,386	386	465	4,956	5,181	644	734
South Carolina	549	545	47	49	677	632	79	94	1,226	1,177	126	143
Georgia	2,162	2,309	217	206	1,772	1.764	157	303	3,934	4,073	374	509
Florida	1,172	1,160	118	106	4,953	4,985	191	170	6,125	6,145	309	276
Kentucky	1,705	1,641	124	149	1,491	1,580	30	89	3,196	3,221	154	238
Tennessee	1,044	1,061	118	88	893	1,042	39	55	1,936	2,103	157	143
Alabama	2,237	2,063	198	197	770	768	25	120	3,007	2,830	223	317
Mississippi	1,276	1,355	137	139	1,108	1,247	17	36	2,383	2,602	154	175
Arkansas	2,664	2,702	262	239	1,578	1,901	38	100	4,242	4,602	300	339
Louisiana	636	587	62	58	1,092	1,259	34	65	1,728	1,846	96	123
Oklahoma	2,788	2,498	282	231	1,068	1,137	126	46	3,856	3,635	408	277
Texas	7,881	7.523	789	737	4,336	4,097	375	292	12,217	11,620	1,164	1,029
WESTERN Montana Idaho Wyoming Colorado	810 1.065 668 2.663	921 1,173 606 2,955	25 114 38 209	64 108 111 250	704 1,586 169 1,099	821 1,643 167 1,083	53 120 23 110	6 165 8 98	1,514 2,651 837 3,762	1,742 2,816 773 4,038	78 234 61 319	72 273 119 348
New Mexico	978	1,040	78	91	474	490	52	37	1,452	1,530	130	128
Arizona	786	892	78	62	1,081	943	31	45	1,867	1,835	109	107
Utah	550	556	44	51	171	182	13	18	721	738	57	69
Nevada	209	202	19	15	88	71	7	6	297	273	26	21
Washington	1,299	1,532	133	128	2,844	2.922	314	382	4,143	4,454	447	510
Oregon	826	79 5	67	78	1,690	1,695	189	177	2,525	2,490	256	255
California	5,254	5,055	484	437	12,523	13,179	1,051	1,162	17,777	18.234	1.535	1,599
Alaska	6	6	0	0	20	20	2	2	27	25	2	2
Hawali	88	88	7	7	474	476	41	39	562	564	48	46
UNITED STATES	86,780	86,358	7,830	7,658	81.942	84,810	6,291	8,151	168,721	171,168	14.121	15,809

^{1/} Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0806. To receive current monthly cash receipts via mall contact Bob Dubman at (202) 219-0804.

Table 33.—Cash Receipts From Farming

				Annual			1992			1993		
	1987	1988	1989	1990	1991	1992	Sept	May	June	July	Aug	Sept
							\$ million					
Fermi marketings & CCC loans*	141,844	151.164	161.163	169,973	168.721	171.168	10,385	12,597	12,208	13,413	14.122	15.809
Livertock & products Meat animals Dairy products Poultry & eggs Other	75.993 44.478 17.727 11.515 2,274	79.434 46.492 17.641 12.868 2.433	84,122 46,857 19,396 15,372 2,498	89.843 51,911 20,149 15,243 2,540	86,780 51,089 18,037 15,122 2,531	88.358 48.427 19.648 15.441 2,642	7,541 4,365 1,836 1,321 229	7.827 4.510 1,793 1,339 186	7,080 3,799 1,675 1,386 200	7,352 3,903 1,647 1,424 378	7,832 4,650 1,559 1,419 204	7.657 4,544 1.499 1.383 231
Crops Food grains Feed crops Cotton (lint & seed) Tobacco	65.851 5,790 14.635 4,189 1,816	71,720 7,469 14,283 4,546 2,083	77,040 8,247 17,054 5,033 2,415	80,130 7,517 18,671 5,489 2,741	81,942 7,410 19,491 5,236 2,886	84,810 8,890 20,073 5,207 2,961	8,844 934 2,028 198 589	4,770 261 847 54 0	5,148 1,099 1,100 39	6.061 1,209 1,612 32 63	8.290 900 1.471 65 505	8,152 325 2.104 194 472
Oil-bearing crops Vegetables & melons Fruits & tres nuts Other	11,283 9,898 8,065 10,178	13.500 9.818 9.027 10,993	11,866 11,596 9,173 11,657	12,258 11,449 9,440 12,566	12,700 11,552 9.888 12,778	12,996 11,436 10,183 13,065	1,476 1,375 1,119 1,125	778 1,390 352 1,087	584 1,028 587 710	591 931 980 733	604 1,192 828 725	1,679 t,194 1,076 1,108
Government payments Total	16.747 158.591	14.480 165,582	10,687	9,298 179,218	8,214 175,506	9.169 179,338	517 16.902	945 13.520	358 12,569	121 13,448	86 14.208	224 16,033

^{*}Sales of farm Products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. information contact; Roger Strickland (202) 219–0806. To receive current monthly cash receipts via mall contact Bob Dubman at (202) 219–0804.

Table 34.—Farm Production Expenses

					Cal	endar yeer					
	1985	1986	1987	1,988	1989	1990	1991	1992 P	1993 F		1994 F
						\$ milfion					
Feed purchased Livestock & poultry purchased Seed purchased Farm-origin inputs	16,949 9,184 3,128 29,261	17,472 9,758 3,188 30,418	17.463 11,842 3.259 32,564	20,246 12,764 4,062 37,071	20.744 13,138 4,400 38,281	20,387 14,833 4,521 39,742	19.330 14.272 5.119 38,722	19,832 13,780 4,918 38,531	.20,000 15,000 5,000 40,000	19,000 12,000 4,000 38,000	to 16,000
Fertilizer & lime Fuels & olls Electricity Pesticides Manufactured Inputs	7.512 6.436 1.878 4.334 20,159	6,820 5,310 1,795 4,324 18,249	6,453 4,957 2,156 4,512 18,078	7.681 4,800 2.360 4,146 18.987	8,177 4,772 2,648 5,013 20,610	8.210 5,790 2.607 5,364 ,21,971	8,671 5,599 2,634 6,324 23,229	8,340 5,311 2,611 6,475 22,738	8.000 5,000 3.000 7.000 23,000	7,000 4,000 2,000 6,000 22,000	to 11,000 to 7,000 to 4,000 to 8,000 to 26,000
Short-term interest Real estate interest 1/ Total interest charges	8,735 9,878 18,813	7,367 9,131 16,498	6,767 8,205 14.972	6,674 7,581 14,255	5,660 7,190 13,850	8.528 6,740 13,268	6,12 4 5,963 12,088	5,793 5,592 11,385	5,000 5,000 11,000	4,000 5,000 10,000	to 7,000 to 7,000 to 14,000
Repair & maintenance 1/ Contract & hired labor Machine hire & custom work Marketing, storage, &	6.370 10,008 2,354	6,426 9,484 2,099	6,759 9,975 2,105	7,717 10,954 2,510	8,407 11,928 2,937	8,553 13,950 2,959	8,630 13,926 3,085	8,469 14,060 3,317	9,000 14,000 3,000	8.000 12,000 3,000	to 10,000 to 16,000 to 5,000
transportation Misc. operating expenses 1/2/ Other operating expenses	4.127 10.010 32,868	3,652 9,759 31,420	4.078 11,171 34,088	3.51 6 12,001 36,697	4,206 12,003 39,481	4.211 12,727 42,400	4.719 13,539 43,899	4,542 12,844 43,232	4.000 13,000 44.000	4,000 11,000 42,000	to 8.000 to 15,000 to 47,000
Capital consumption 1/ Taxes 1/ Net rent to nonoperator	19.299 4,542	17,788 4,612	17.091 4.853	17,378 4.955	17.8 6 3 5,214	17.682 5,690	17,845 5,613	17,769 5.838	18,000 6,000	17.000 5,000	
landlords Other overhead expenses	7,690 31,531	6.099 28,499	7,124 29,069	7,684 30,016	8,731 31,807	9,164 32,51 7	9,112 32,370	9,603 33 ,2 10	9,000 33,000	8,000 33,000	to 10,000 to 36,000
Total production expenses	132,433	125,084	128.772	137,026	144.029	149,897	150,307	149,094	t51.000	150,000	to 159,000

^{1/} Includes operator dwellings. 2/ Beginning in 1982, misceltaneous operating expenses include other livestock purchases, dairy assessments & feeding fees paid by nonoperators. Totals may not add because of rounding. P = preliminary. F = forecast.

Information contacts: Chris McGath (202) 219-0804, Robert McElroy (202) 219-0800.

Table 35.—CCC Net Outlays by Commodity & Function.

					Fie	scal уеат				
	1985	1986	1987	1988	1989	1990	1991	1992	1993 E	1994 E
						\$ million				
COMMODITY/PROGRAM Feed grains Com Grain sorghum Barley Qats	4.403 463 336 2	10,524 1,185 471 26 5	12,346 1,203 394 17	8,227 764 57 -2 7	2.863 467 45 1	2,450 361 -93 -5	2,387 243 71 12 9	2,105 190 174 32	4.882 400 203 15	3,421 310 133 12
Corn & oat products Total feed grains	5,211	12,211	13,967	9.053	3,384	2.721	2,722	2,510	5,509	3,883
Wheat Rice Upland cotton	4,691 990 1.553	3,440 947 2,142	2,836 906 1,786	678 128 666	53 631 1.461	808 867 -79	2,958 867 382	1,719 715 1,443	2,424 1,035 2,304	2,304 955 2,329
Tobacco Dairy Soybeans Peanuts	455 2,085 711 12	253 2,337 1,597 32	-346 1,1 66 -476 8	-453 1,295 -1,676 7	-367 679 -86 13	-30 7 50 5 5	-143 839 40 48	29 232 -29 41	130 315 9 -11	25 249 -37 4
Sugar Honey Wool	184 81 109	214 89 123	-65 173 152	-246 100 1/ 5	-25 42 93	15 47 104	-20 19 172	-19 17 191	-27 15 176	-24 15 196
Operating expense 3/ Interest expenditure Export programs 4/ 1989/93 Disaster/Tree/	346 1,435 134	457 1,411 102	535 1.219 278	614 425 200	820 98 -102	618 632 -34	625 745 733	532 1,455	6 98 3,142	6 39 1, 83 3
livestock assistance Other	0 -314	0 48 0	0 371	0 1, 6 65	3.919 110	2/ 181 609	121	1,054 -158	1,389 636	2,348 1,297
Tota!	17.683	25,841	22,408	12,461	10.523	0,471	10,110	9,738	17,150	15,420
FUNCTION Price-support loans (net) Offect payments 5/	6,272	13,628	12,199	4,579	-926	-399	418	584	2,152	1,368
Deficiency Oiversion Dairy termination Loan Deficiency Other Disaster Total direct payments	8,302 1,525 0 0 0 0 7,827	6,166 64 489 27 0 0 6,746	4,833 382 587 60 0 0 5,862	3,971 8 260 0 0 4,245	5,798 -1 168 42 0 4 6.011	4.178 0 189 3 0 0 4.370	6,224 0 96 21 0 0 6,341	6,491 0 2 214 140 0 5,847	8,573 0 0 385 203 0 9,161	7,307 0 0 425 249 0 7,981
1988-93 crop disaster Emergency livestock/tree/	0	0	0	0	3,386	2/ 5	6	960	1.328	2.342
forage assistance Purchases (net) Producer storage	0 1,331	0 1,670	-479	31 -1,131	533 116	156 -48	115 648	94 321	6 1 453	378
payments Processing, storage,	329	485	832	658	174	185	1 394	14 185	12	135
& transportation	657	1,013	1.859	1.113	659	317				140
Operating expense 3/ Interest expenditure Expert programs 4/ Other	346 1,435 134 -84 8	457 1,411 102 329	535 1,219 278 305	814 425 200 1,727	620 98 -102 -46	618 632 -34 669	625 745 733 86	532 1,455 -280	8 98 3,142 616	39 1,833 1,269
Total	17,683	25,841	22,408	12,461	10.523	6,471	10,110	9.738	17,150	15.420

1/ Fiscal 1988 wool & mohair program outlays were \$130,835.000 but include a one-time advance appropriation of \$126,198,000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager. 4/ Includes Export Guarantee Program, Olrect Export Credit Program, CCC Transfers to the General Sales Manager. Market Promotion Program, starting in fiscal 1991 & starting in fiscal 1992 the Export Guarantee Program - Credit Reform, Export Enhancement Program, & Dairy Export Incentive Program. 5/ Includes cash payments only. Excludes payment—in-kind in fiscal 83–85 & generic certificates in fiscal 86–93 E = Estimated in the fiscal 1994 Mid-Session Review Budget which was released September 1, 1993 based on June, 1993 supply & demand estimates. These estimates incorporate the aggregate outlay impact of the FY 1993 Disaster Supplemental for the Midwest floods and the Omnibus Budget Reconciliation Act of 1993. The impact of the Disaster Act and the Reconciliation Act on outlay estimates for individual CCC commodities is not reflected in this table.

Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdaiski (202) 720-5148.

Food Expenditures

Table 36.—Food Expenditures

		Annual			1993		199	3 year—to—c	date
	1990	1991	1992	Sept	Oct P	Nov P	Sept	Oct	Nov P
					\$ billion				
Sales 1/ Off-premise use 2/	302.6	315.3	319.4	26.9	27.1	26.8	242.0	269.1	295.9
Meals & ≢nacks 3/	225.3	232.4	240 4	21.5	22.0	20.4	189.1	211.1	231.5
				1	992 \$ billio	n			
Sales 1/				_				200	0007
Off-premise use 2/ Meals & snacks 3/	312.9 237.7	317.6 237.1	319.3 240.3	26.3 21 1	26.4 21.5	25.9 19.7	237.4 186.6	263.9 208.1	289.7 227.9
				Percent chang	ge from yea	r earller (\$ bi	l.)		
Sales 1/									
Off-premise use 2/ Meals & snacks 3/	8.9 7.2	4.2 3.2	1.3	3.4 9.0	0.4 4.6	2.4 3.1	2.1 5.6	1.9 5.5	1.9 5.3
				Percent chang	ge from yea	r earlier (199	2 \$ bil.)		
Sales 1/									
Off-premise use 2/	2.2	1.5	0.5	1.5	-2.2	-0.7	0.0	-0.2	-0.2 3.6
Meals & snacks 3/	2.4	-0.2	1.3	7.0	2.7	0.5	4.1	3.0	3.6

^{1/} Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. R = revised. P = preliminary.

information contact: Alden Manchester (202) 219-0880.

Transportation

Table 37.—Rail Rates; Grain & Fruit-Vegetable Shipments

	Annual		1992	1993						
	1990	1991	1992	Oct	May	June	July	Aug	Sept	Oct
Rail freight rate index 1/ (Dec. 1984=100) All products Farm products Grain Food products	107.5 110.4 110.1 105.4	109.3 111.4 111.2 108.1	109.9 111.1 111.4 108.7	110.1 112.4 113.1 108.1	110.7 113.3 114.2 108.8	110.7 113.2 114.1 108.8	110.7 P 113.2 P 114.1 P 108.9 P	110 8 P 113.2 P 114.0 P 108.9 P	110.9 P 113.4 P 114.3 P 108.7 P	111.3 P 115.8 P 116.0 P 108.7 P
Grain shipments Rail carloadings (1,000 cars) 2/ Barge shipments (mil. ton) 3/	27.6 3.8	26.6 3.3	27.2 3.4	30.7 26	24.7 P 3.7	24.7 P 3.7	25,9 P 0.4	25.8 P 1.7	26.9 P 3.6	28.6 P 3.5
Fresh fruit & vegetable shipments 4/ 5/ Piggy back (mil. cwt) Rail (mil. cwt) Truck (mil. cwt)	1.8 2.3 41.5	1.5 2.1 41.9	1.6 2.6 44.0	1.3 2.0 42.2	2.0 3.0 57.5	1.9 3.2 55.6	1.1 1.8 46.5	1.0 0.8 39.4	1.4 1.3 37.9	1.0 1.7 45.3
Cost of operating trucks hauling produce 4/ Fleet operation (cts./mile)	130.5	126.5	124.1	125.0	127.3	127.2	127.0	126.2	125.8	129 2

^{1/} Department of Labor, Bureau of Labor Statistics 2/ Weekly average; from Association of American Railroads. 3/ Shipments on Illinois & Mississippi waterways, U.S. Corps of Engineers. 4/ Agricultural Marketing Service, USDA 5/ Preliminary data for 1993. P = preliminary. — = not available.

Information contact: T Q. Hutchinson (202) 219-0840

NOTE. This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food excluding alcoholic beverages & pet food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an integrated information System for the Food Sector," Agr. Econ. Rpt. No. 575, Aug 1987.

Food Supply & Use

Table 38.—Per Capita Consumption of Major Food Commodities 1/

Commodity	1985	1986	1987	1988	1989	1990	1991	1992 P	
	Pounds								
Red meats 2/3/4/	124.9	122.2	117.4	119.5	115.9	112.4	111.9	114.1	
Beef	74.6	74.4	69.6	68 6	65.4	64.0	63.1	62.8	
Veal	1.5	1.6	1.3	1.1	1.0	0.9	0.8	0.8	
Lamb & mutton	1.1	1.0	1.0	1.0	1.1	1.1	1.0	1.0	
Pork	47.7	45.2	45.6	48.8	48.4	46.4	46.9	49.5	
Poultry 2/3/4/	45.2	47.1	50.7	51.7	53.6	55.9	58.0	60.1	
Chićken	36.1	37.0	39.1	39.3	40.5	42.1	43.9	45.9	
Turkey	9.1	10.2	11.6	12.4	13.1	13.8	14.1	14.2	
Fish & shellfish 3/	15.0	15.4	16.1	15.1	15.6	15.0	14.8	14.7	
Eggs 4/	32.9	32.6	32.7	31.6	30 4	30,1	30.0	30,2	
Dairy products							05.0		
Cheese (excluding cottage) 2/5/	22.5	23.1	24.1	23.7	23.8	24.6	25.0	26.0	
American	12.2	12.1	12.4	11.5	11.0	11.1	11.1	11.3	
Italian	6.5	7.0	7.6	8.1	8.5	9.0	9:4	10.0	
Other cheese 6/	3.9	4.0	4.1	4.1	4.3	4.6	4.6	4.7	
Cottage cheese	4.1	4.1	3.9	3.9	3.6	3.4	3.3	3.1 218.5	
Beverage milks 2/	229.7	228.6	226.5	222.4	224 3	221.7	221.2		
Fluid whole milk 7/	123.4	116.5	111.9	105.7	97.6	90.4	87.4	84.1	
Fluid lowfat mllk 8/	93.7	98.6	100.6	100.5	106 5	108.4	109.9	109.4	
Fluid skim milk	12.6	13.5	14.0	16.1	20.2	22.9	23.9	25.0	
Fluid cream products 9/	6.7	7.0	7.1	7.1	7.3	7.1	7.3	7.5	
Yogurt (excluding frozen)	4.1	4.4	4.4	4.7	4.3	4.1	4.2	4.3 16.4	
ice cream	18.1	18.4	18.4	17.3	16.1	15.8	16.3 7.4	7.1	
Ice milk	6.9	7.2	7.4	8.0	8.4	7.7	3.5	3.1	
Frozen yogurt	_	_	_	_	2.0	2.8	3.5	9.1	
All dairy products, milk	500.0	FOT F	801 2	582.9	585.2	589.7	565.2	564.6	
equivalent, milkfat basis 10/	593.8	591.5	601.3 62.9	63.0	80.4	62.2	63.8	65.6	
Fats & oils Total fat content	64.3	64.4	15.2	14.8	14.8	15.3	14.8	15.2	
Butter & margarine (product weight)	15.7	16.0 22.1	21.4	21.5	21.5	22.2	22.4	22.4	
Shortening	22. 9 3.7	3 5	2.7	26	2.1	2.5	3.1	4.1	
Lard & edible tallow (direct use)	23.5	24.2	25.4	25.8	24.0	24.2	25.2	25.6	
Salad & cooking oils	110.6	117.4	121.6	120.7	123.1	116.8	113.2	122.7	
Fresh fruits 11/	12.7	12.9	13.6	13.3	13.3	13.5	12.3	14.4	
Canned fruit 12/	2.9	2.7	3.1	3.3	3.2	3.6	3.1	3.2	
Dried fruit	3.3	3.6	3.9	3.8	4.6	4.3	3.9	4.7	
Frozen fruit	66.9	65.0	70.0	64.7	67.0	59.6	63.8	59 6	
Selected fruit juices 13/	90.8	00.0	10.0		0710				
Vegetablee 11/ Fresh	103.0	100.5	107.0	111.5	115.5	113.3	110.4	109.3	
Canning	95.1	95.6	95.1	91.2	98.7	101.7	103.4	106.3	
Freezing	19.6	18.5	19.3	21.1	20.7	20.5	21.6	20.8	
Potatoee, all 11/	122.4	126.0	125.9	122.5	127.1	127.8	130.6	133.5	
Sweetpotatoes 11/	5.4	4.4	4.4	4.1	4.1	4.6	4.0	4.3	
Peanuts (shelled)	6.3	6.4	6.4	69	7.0	6.0	6.5	6.4	
Tree nuts (shelled)	2.3	2.2	2.2	2.3	2.4	2.6	2.3	2.4	
Flour & cereal products 14/	156.1	162 1	170.8	173.7	175.4	183.5	185.4	187.0	
Wheat flour	124.7	125.7	130.0	130.0	129.6	135.8	138.5	138.3	
Rice (milled basis)	9.0	11.6	14.0	14.3	15.2	16.2	16.8	16.8	
Caloric sweeteners 15/	131.3	129.6	133.7	135.1	137.3	140.7	141.7	143.3	
Coffee (green bean equiv.)	10.5	10.5	10.2	9.8	10.1	10.3	10.5	10.6	
warran (Branti natit natital)	3.7	3.8	3.8	3.8	4.0	4.3	4 6	4.6	

If In pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, & ending stocks. Calendar-year data except fresh citrus fruits, peanuts, tree nuts, & rice, which are on crop-year basis. 2/ Total may not add due to rounding. 3/ Boneless, trimmed weight. Chicken series revised to exclude amount of ready-to-cook chicken going to pet food as well as some water leakage that occurse when chicken is cut up before packaging. 4/ Exicudes shipments to the U.S. territories. 5/ Natural equivalent of cheese & cheese & other dairy products. Includes miscellaneous cheese not shown separately. 6/ Includes Swiss, Brick. Munster, cream, Neutchatel, Blue, Gorgonzola, Edam, & Gouds. 7/ Plain & flavored. 8/ Plain & flavored & bunermilk. 9/ Heavy cream, light cream, half & half, & sour cream & dip. 10/ Includes condensed & evaporated milk & dry milk products. 11/ Farm weight. 12/ Excludes pineapples & berries. 13/ Single strength equivalent. 14/ Includes rye, corn, oat, & barley products. Excludes quantities used in alcoholic beverages, corn sweeteners, & fuel. 15/ Dry weight equivalent. — not available. P = Preliminary.

Information contact: Judy Jones Putnam (202) 219-0862

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